

ENCLOSURE DIVISION

CUSTOM METAL PRODUCTS, INC. / A SUBSIDIARY OF TYCO LABORATORIES, INC. / 200 BROADWAY, NEW HYDE PARK, N.Y. 11040

THE CMP ENCLOSURE SYSTEM

The CMP Enclosure System is the outgrowth of CMP's broad experience in the manufacture of fine custom cabinetry for the electronics and data processing industries. Our objective was to engineer a system which was functional yet attractive, rugged yet economical, versatile yet simple . . . in short . . . to provide the fine detail and workmanship of custom cabinetry at mass production prices.

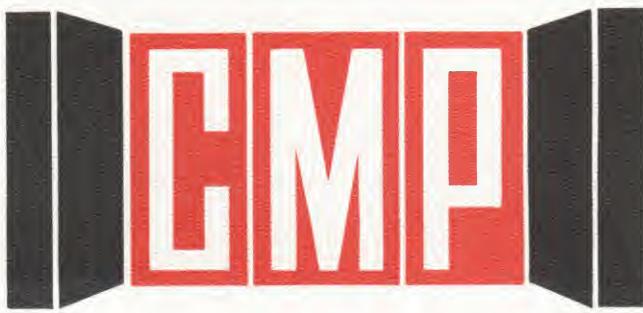
The resulting design is a refinement of the universally accepted modular principle of electronic packaging. Any configuration . . . side by side . . . back to back, etc. . . . is feasible, utilizing a variety of frames, sides, doors and accessories which are all readily available in standard sizes.

The enclosures are engineered to meet the most exacting packaging requirements, while allowing the engineer an unusual latitude for layout. The fabrication techniques utilized in manufacturing the modular components and in assembling the modules themselves are geared to produce exceptionally rugged structures.

We are confident that the CMP Enclosure System will provide the best solution to your packaging problems.

CUSTOM METAL PRODUCTS, INC.

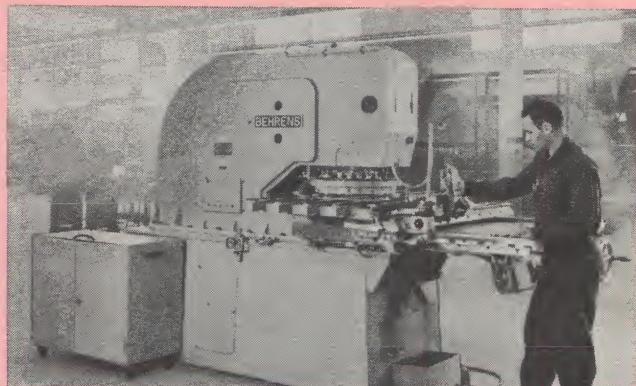
a subsidiary of Tyco Laboratories Inc.
200 BROADWAY, NEW HYDE PARK, N. Y. 11040

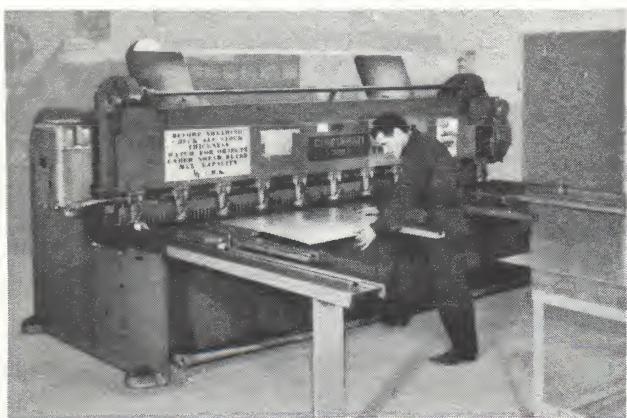
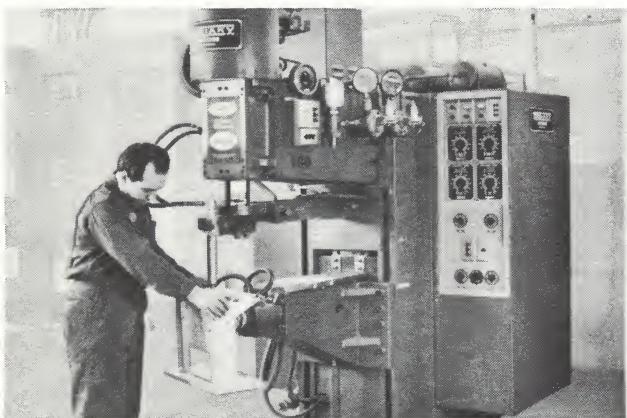
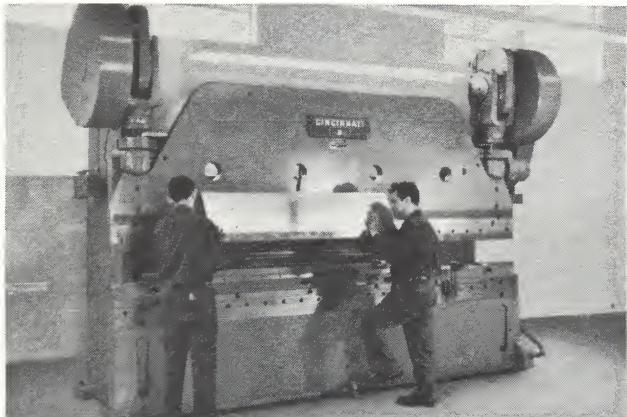


ENCLOSURE DIVISION

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ENCLOSURE DIVISION

PRECISION...

A man is judged by the company he keeps . . . and a manufacturer is judged by the equipment he uses. The standards of quality and reliability of CMP products are in large part related to the precision equipment that is used in all phases of fabrication. Shearing, piercing, forming, welding, grinding, finishing, and inspection are all performed with the newest and best equipment available. Typical examples are numerically controlled piercing machinery and electronic inspection equipment which enable CMP to meet the most demanding military and commercial specifications.

CONSTRUCTION FEATURES

All CMP frames are made of high quality No. 14 gauge cold rolled steel and are exceptionally rugged. Panel mounting angles are No. 11 gauge steel and the horizontal angle supports are No. 16 gauge. The frame is equipped with 2 pairs of panel mounting angles which are adjustable on 1 1/4" centers. Both legs of the angle have E.I.A. 5/8" — 5/8" — 1/2" hole spacing.

The removable horizontal angle supports are vertically adjustable. This added feature provides complete flexibility in the side installation and servicing of equipment.

The frame is easily gasketed without construction changes. Flanges are provided on all open areas, allowing simple installation of gasketing. The frame accommodates flush fitting sides. Units may be assembled side-by-side without the need of special size or shape panels. The frames may be assembled in an unlimited variety of arrangements.

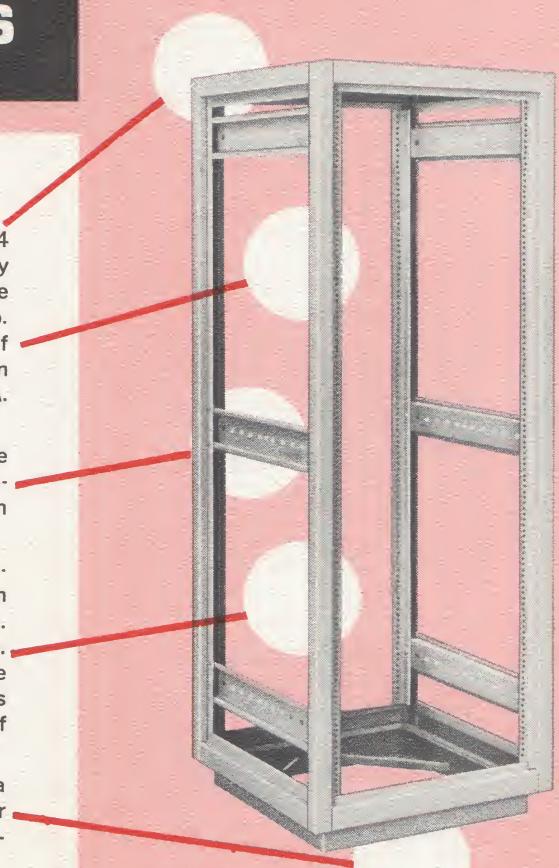
The base is removable, allowing for the use of a pontoon-type or a single, double or triple caster base. Alternatively, the frame may be used without a base.

FINISHING

After a thorough cleaning, all parts are protected by a corrosion-resistant phosphatized coating; then finished by enamelling and baking. Frames are Light Gray Enamel; doors and panels are Smoke Gray Enamel.

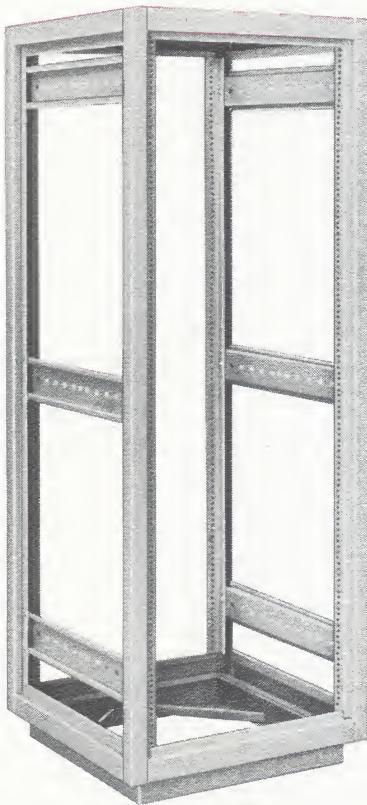
PLASTIC LAMINATED TOPS AND SHELVES

All laminated tops and shelves are made of a thermosetting plastic which resists abrasion, heat, acids and alkalines.

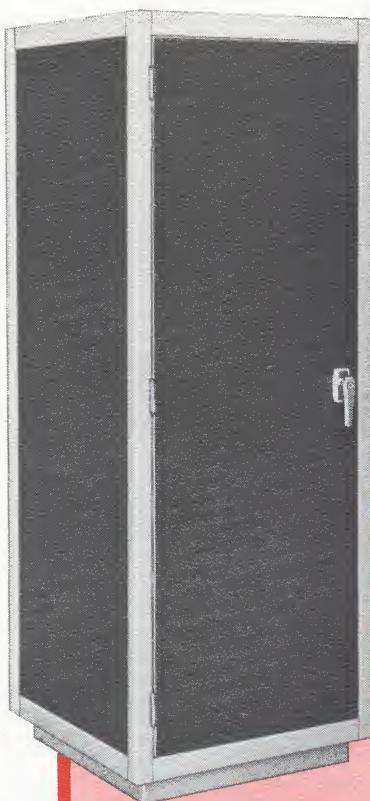


FEATURES

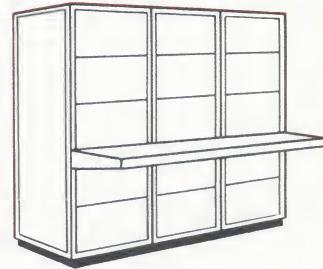
- Designed to be joined side by side or back to back in modular arrangement
- Made of No. 14 gauge cold rolled steel
- Supplied with 2 pairs of adjustable panel mounting angles made of No. 11 ga. steel
- Removable and adjustable horizontal angle supports
- Accommodates flush panels and doors (Pages 13 and 14)
- Base optional — order only if required (Page 15)
- Easily gasketed — all openings have return flanges on all 4 sides
- Adaptable for eye bolts — (add EB to Catalog number — Page 26)
- 2 depths — $23\frac{5}{16}$ " and $28\frac{5}{16}$ "
- 2 panel widths — for 19" and 24" panels
- 8 heights — 21" to $78\frac{3}{4}$ "
- Frames of varying sizes can be easily joined without special parts
- Frames can be joined together using joining kit (Page 26)
- Finished in Light Gray Enamel



VE SERIES



VERTICAL FRAMES



| 23 $\frac{5}{16}$ " Wide 19" Panel Space | 23 $\frac{5}{16}$ " DEEP | | 28 $\frac{5}{16}$ " Wide 24" Panel Space |
|---|--------------------------|--------------------------|---|
| | Vertical Panel Space | Overall Height Less Base | |
| VE-121-3 | 21" | 26 $\frac{1}{16}$ " | VE-221-3 |
| VE-128-3 | 28" | 33 $\frac{5}{16}$ " | VE-228-3 |
| VE-135-3 | 35" | 40 $\frac{1}{16}$ " | VE-235-3 |
| VE-143-3 | 43 $\frac{3}{4}$ " | 49 $\frac{1}{16}$ " | VE-243-3 |
| VE-152-3 | 52 $\frac{1}{2}$ " | 57 $\frac{5}{16}$ " | VE-252-3 |
| VE-161-3 | 61 $\frac{1}{4}$ " | 66 $\frac{1}{16}$ " | VE-261-3 |
| VE-170-3 | 70" | 75 $\frac{5}{16}$ " | VE-270-3 |
| VE-178-3 | 78 $\frac{3}{4}$ " | 84 $\frac{1}{16}$ " | VE-278-3 |

| 23 $\frac{5}{16}$ " Wide 19" Panel Space | 28 $\frac{5}{16}$ " DEEP | | 28 $\frac{5}{16}$ " Wide 24" Panel Space |
|---|--------------------------|--------------------------|---|
| | Vertical Panel Space | Overall Height Less Base | |
| VE-121-8 | 21" | 26 $\frac{1}{16}$ " | VE-221-8 |
| VE-128-8 | 28" | 33 $\frac{5}{16}$ " | VE-228-8 |
| VE-135-8 | 35" | 40 $\frac{1}{16}$ " | VE-235-8 |
| VE-143-8 | 43 $\frac{3}{4}$ " | 49 $\frac{1}{16}$ " | VE-243-8 |
| VE-152-8 | 52 $\frac{1}{2}$ " | 57 $\frac{5}{16}$ " | VE-252-8 |
| VE-161-8 | 61 $\frac{1}{4}$ " | 66 $\frac{1}{16}$ " | VE-261-8 |
| VE-170-8 | 70" | 75 $\frac{5}{16}$ " | VE-270-8 |
| VE-178-8 | 78 $\frac{3}{4}$ " | 84 $\frac{1}{16}$ " | VE-278-8 |

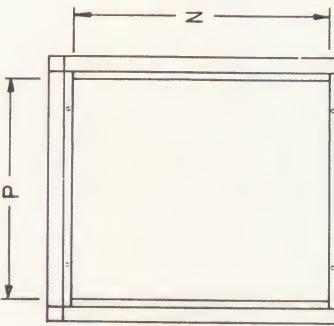
SEE PAGE 6 FOR DRAWING AND DIMENSIONS

VERTICAL FRAME/VE SERIES

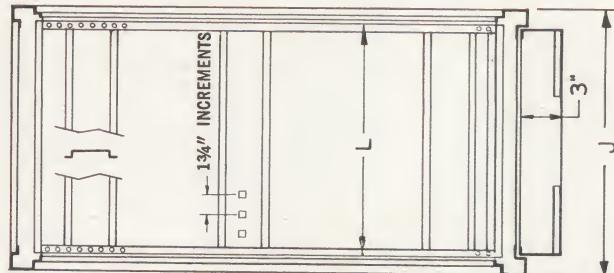
| | * | A | B | C | D | F | G | J | K | L | M | N | P |
|---------|--------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|--------------------|--------------------|
| VE121-3 | 21 | 20 $\frac{5}{16}$ " | 23 $\frac{5}{16}$ " | 17 $\frac{1}{16}$ " | 18 $\frac{3}{16}$ " | 19 $\frac{1}{16}$ " | 23 $\frac{5}{16}$ " | 18 $\frac{3}{16}$ " | 20 $\frac{3}{16}$ " | 20 | 18 $\frac{1}{2}$ " | 19 | |
| VE128-3 | 28 | 33 $\frac{5}{16}$ " | " | " | " | " | " | " | " | " | 27 | " | |
| VE135-3 | 35 | 40 $\frac{3}{16}$ " | " | " | " | " | " | " | " | " | 34 | " | |
| VE143-3 | 43 $\frac{1}{2}$ " | 48 $\frac{3}{16}$ " | " | " | " | " | " | " | " | " | 47 $\frac{1}{2}$ " | " | |
| VE152-3 | 52 $\frac{1}{2}$ " | 57 $\frac{3}{16}$ " | " | " | " | " | " | " | " | " | 51 $\frac{1}{2}$ " | " | |
| VE161-3 | 61 $\frac{1}{4}$ " | 66 $\frac{3}{16}$ " | " | " | " | " | " | " | " | " | 60 $\frac{1}{4}$ " | " | |
| VE170-3 | 70 | 75 $\frac{3}{16}$ " | " | " | " | " | " | " | " | " | 69 | " | |
| VE176-3 | 78 $\frac{1}{2}$ " | 84 $\frac{3}{16}$ " | " | " | " | " | " | 23 $\frac{5}{16}$ " | 18 $\frac{3}{16}$ " | 20 $\frac{3}{16}$ " | 77 $\frac{1}{2}$ " | 18 $\frac{1}{2}$ " | |
| VE178-8 | 21 | 26 $\frac{3}{16}$ " | " | " | " | " | " | 28 $\frac{3}{16}$ " | 23 $\frac{5}{16}$ " | 25 $\frac{3}{16}$ " | 20 | 23 $\frac{1}{2}$ " | |
| VE178-8 | 28 | 32 $\frac{3}{16}$ " | " | " | " | " | " | " | " | " | 27 | " | |
| VE178-8 | 35 | 40 $\frac{3}{16}$ " | " | " | " | " | " | " | " | " | 34 | " | |
| VE178-8 | 43 $\frac{1}{2}$ " | 49 $\frac{3}{16}$ " | " | " | " | " | " | " | " | " | 47 $\frac{1}{2}$ " | " | |
| VE178-8 | 52 $\frac{1}{2}$ " | 57 $\frac{3}{16}$ " | " | " | " | " | " | " | " | " | 51 $\frac{1}{2}$ " | " | |
| VE178-8 | 61 $\frac{1}{4}$ " | 66 $\frac{3}{16}$ " | " | " | " | " | " | " | " | " | 60 $\frac{1}{4}$ " | " | |
| VE178-8 | 70 | 75 $\frac{3}{16}$ " | " | " | " | " | " | " | " | " | 69 | " | |
| VE178-8 | 78 $\frac{1}{2}$ " | 84 $\frac{3}{16}$ " | " | " | " | " | " | " | " | " | 77 $\frac{1}{2}$ " | 77 $\frac{1}{2}$ " | 19 |
| VE221-3 | 21 | 26 $\frac{3}{16}$ " | 28 $\frac{3}{16}$ " | 22 $\frac{1}{2}$ " | 23 $\frac{5}{16}$ " | 19 $\frac{3}{16}$ " | 28 $\frac{3}{16}$ " | 23 $\frac{5}{16}$ " | 18 $\frac{3}{16}$ " | 20 $\frac{3}{16}$ " | 20 | 18 $\frac{1}{2}$ " | |
| VE228-3 | 28 | 33 $\frac{5}{16}$ " | " | " | " | " | " | " | " | " | " | 60 $\frac{1}{4}$ " | " |
| VE228-3 | 35 | 40 $\frac{3}{16}$ " | " | " | " | " | " | " | " | " | " | 69 | " |
| VE235-3 | 43 $\frac{1}{2}$ " | 49 $\frac{3}{16}$ " | " | " | " | " | " | " | " | " | " | 74 $\frac{1}{2}$ " | |
| VE235-3 | 52 $\frac{1}{2}$ " | 57 $\frac{3}{16}$ " | " | " | " | " | " | " | " | " | " | 81 $\frac{1}{2}$ " | |
| VE261-3 | 61 $\frac{1}{4}$ " | 66 $\frac{3}{16}$ " | " | " | " | " | " | " | " | " | " | 60 $\frac{1}{4}$ " | " |
| VE270-3 | 70 | 75 $\frac{3}{16}$ " | " | " | " | " | " | " | " | " | " | 69 | " |
| VE278-3 | 78 $\frac{1}{2}$ " | 84 $\frac{3}{16}$ " | " | " | " | " | " | " | 23 $\frac{5}{16}$ " | 18 $\frac{3}{16}$ " | 20 $\frac{3}{16}$ " | 77 $\frac{1}{2}$ " | 18 $\frac{1}{2}$ " |
| VE221-8 | 21 | 26 $\frac{3}{16}$ " | " | " | " | " | " | 28 $\frac{3}{16}$ " | 23 $\frac{5}{16}$ " | 25 $\frac{3}{16}$ " | 20 | 23 $\frac{1}{2}$ " | |
| VE228-8 | 28 | 33 $\frac{5}{16}$ " | " | " | " | " | " | " | " | " | " | 27 | " |
| VE235-8 | 35 | 40 $\frac{3}{16}$ " | " | " | " | " | " | " | " | " | " | 34 | " |
| VE235-8 | 43 $\frac{1}{2}$ " | 49 $\frac{3}{16}$ " | " | " | " | " | " | " | " | " | " | 47 $\frac{1}{2}$ " | |
| VE262-8 | 52 $\frac{1}{2}$ " | 57 $\frac{3}{16}$ " | " | " | " | " | " | " | " | " | " | 51 $\frac{1}{2}$ " | |
| VE270-8 | 70 | 75 $\frac{3}{16}$ " | " | " | " | " | " | " | " | " | " | 69 | " |
| VE278-8 | 78 $\frac{1}{2}$ " | 84 $\frac{3}{16}$ " | 28 $\frac{3}{16}$ " | 22 $\frac{1}{2}$ " | 23 $\frac{5}{16}$ " | 24 $\frac{1}{16}$ " | 28 $\frac{3}{16}$ " | 23 $\frac{5}{16}$ " | 25 $\frac{3}{16}$ " | 23 $\frac{1}{2}$ " | 77 $\frac{1}{2}$ " | 23 $\frac{1}{2}$ " | 24 |

* NOMINAL STANDARD VERTICAL PANEL SPACING.
ADD $\frac{3}{16}$ " FOR ACTUAL DIMENSION

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ENCLOSURE DIVISION

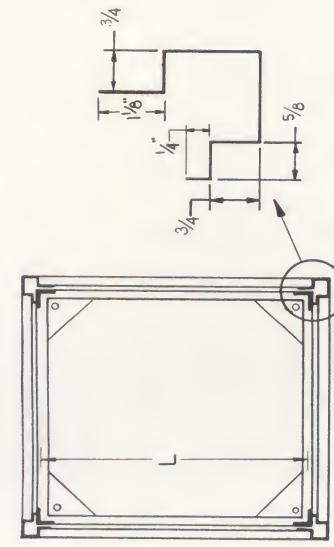


TOP VIEW

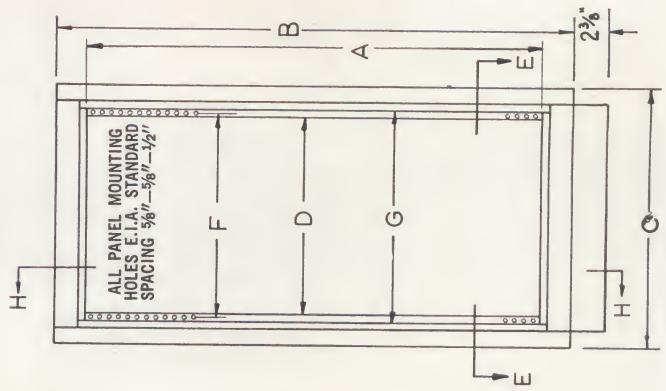


FRONT & REAR VIEW

SECTION E-E

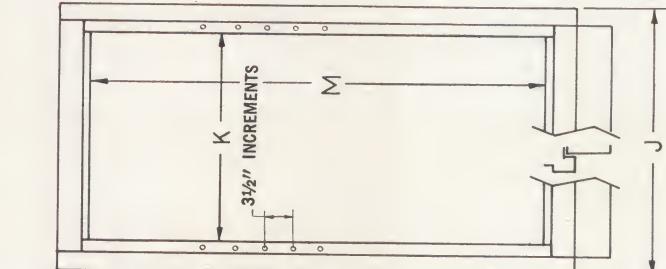


SIDE VIEW



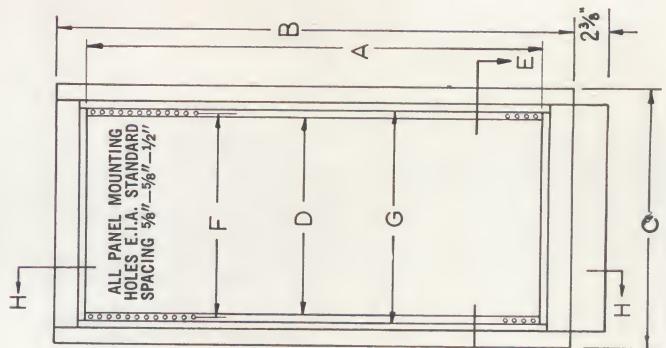
FRONT & REAR VIEW

SECTION H-H



SECTION H-H

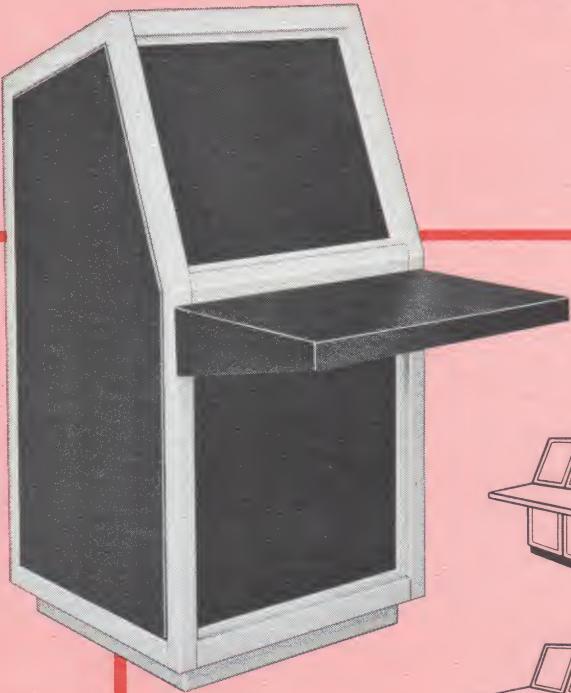
SECTION E-E



FRONT & REAR VIEW

| FOR 19" PANELS | 17½" SLOPED PANEL SPACE | | | | | | FOR 24" PANELS | |
|-------------------------|--------------------------|---------------------|--------------------|---------------------|----------------------|----------------|----------------|----------------|
| Cat. No. | Overall Height Less Base | Front Vertical P.S. | Rear P.S. | Depth | Top Panel Opening | Use Top Panel* | Cat. No. | Use Top Panel* |
| SE-117-3 | 49 $\frac{1}{16}$ " | 24 $\frac{1}{2}$ " | 36 $\frac{3}{4}$ " | 23 $\frac{5}{16}$ " | 13 $\frac{25}{32}$ " | TP-173 | SE-217-3 | TP-273 |
| SE-117-8 | 49 $\frac{1}{16}$ " | 24 $\frac{1}{2}$ " | 35" | 28 $\frac{5}{16}$ " | 19 $\frac{3}{32}$ " | TP-178 | SE-217-8 | TP-278 |
| 10½" SLOPED PANEL SPACE | | | | | | | | |
| SE-110-3 | 46 $\frac{3}{4}$ " | 28" | 33 $\frac{1}{4}$ " | 23 $\frac{5}{16}$ " | 16 $\frac{5}{16}$ " | TP-103 | SE-210-3 | TP-203 |
| SE-110-8 | 46 $\frac{3}{4}$ " | 28" | 31 $\frac{1}{2}$ " | 28 $\frac{5}{16}$ " | 21 $\frac{5}{16}$ " | TP-108 | SE-210-8 | TP-208 |

*Page 16



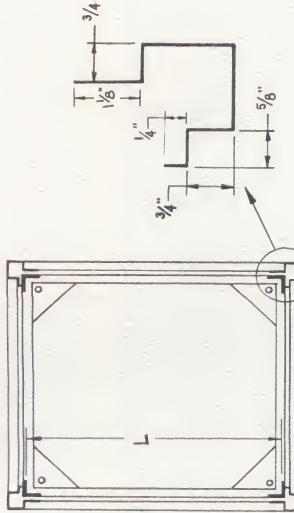
SLOPED FRAMES

FEATURES

- Designed to be joined side-by-side and in conjunction with vertical racks in modular arrangements.
- Vertical adjustable panel mounting angles made of No. 11 gauge steel.
- Removable and adjustable horizontal angle supports.
- Base optional — order only if required (Page 15).
- Easily gasketed — all openings have return flanges on all 4 sides.
- Accommodates flush side panels and doors (Pages 13 and 14).
- 2 Depths — 23 $\frac{5}{16}$ " and 28 $\frac{5}{16}$ ".
- 2 Panel Widths — 19" and 24".
- Made of No. 14 gauge cold rolled steel.
- Finished in Light Gray Enamel.

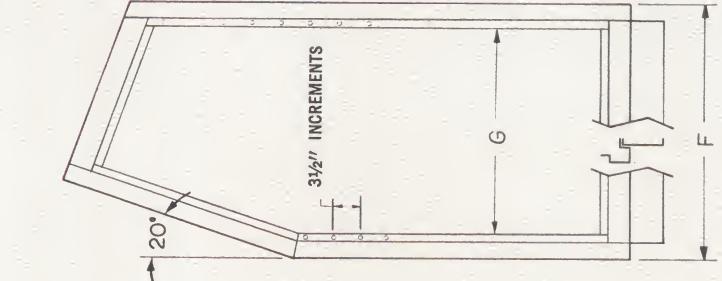
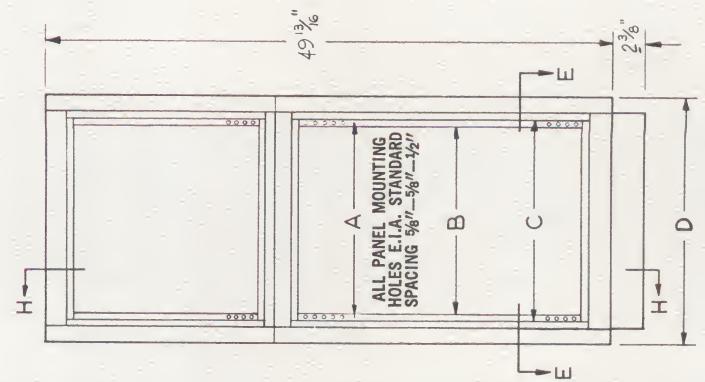
SLOPED FRAME SE SERIES 17½" SLOPE

| | A | B | C | D | F | G | J | K | L | M |
|----------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|----|
| SE-117-3 | 18 $\frac{1}{4}$ " | 17 $\frac{1}{4}$ " | 19 $\frac{1}{4}$ " | 23 $\frac{1}{4}$ " | 23 $\frac{1}{4}$ " | 18 $\frac{1}{4}$ " | 35 $\frac{1}{4}$ " | 12 $\frac{1}{4}$ " | 20 $\frac{1}{4}$ " | 19 |
| SE-217-3 | 23 $\frac{1}{4}$ " | 22 $\frac{1}{4}$ " | 24 $\frac{1}{4}$ " | 28 $\frac{1}{4}$ " | 23 $\frac{1}{4}$ " | 18 $\frac{1}{4}$ " | 35 $\frac{1}{4}$ " | 12 $\frac{1}{4}$ " | 20 $\frac{1}{4}$ " | 24 |
| SE-117-8 | 18 $\frac{1}{4}$ " | 17 $\frac{1}{4}$ " | 19 $\frac{1}{4}$ " | 23 $\frac{1}{4}$ " | 28 $\frac{1}{4}$ " | 23 $\frac{1}{4}$ " | 35 $\frac{1}{4}$ " | 17 $\frac{1}{4}$ " | 25 $\frac{1}{4}$ " | 19 |
| SE-217-8 | 23 $\frac{1}{4}$ " | 22 $\frac{1}{4}$ " | 24 $\frac{1}{4}$ " | 28 $\frac{1}{4}$ " | 28 $\frac{1}{4}$ " | 23 $\frac{1}{4}$ " | 35 $\frac{1}{4}$ " | 17 $\frac{1}{4}$ " | 25 $\frac{1}{4}$ " | 24 |

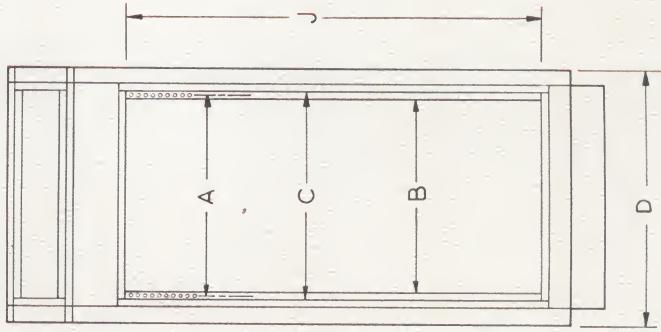
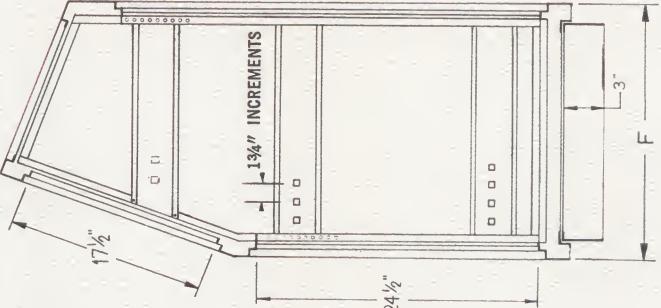


SECTION E-E

H



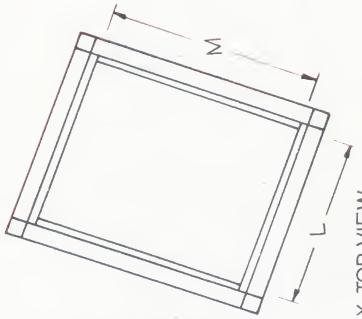
AUX. TOP VIEW



REAR VIEW

SECTION H-H

SLOPED FRAME SE SERIES 10½" SLOPE

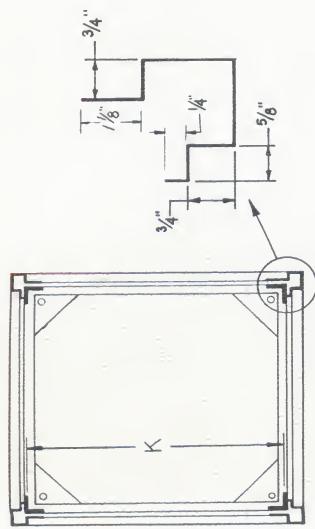


AUX TOP VIEW

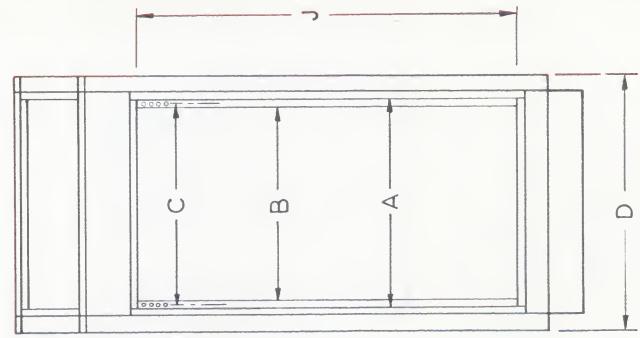
| | A | B | C | D | F | G | J | K | L | M |
|----------|----|-----|--------|--------|--------|--------|--------|--------|--------|----|
| SE-10-3 | 19 | 17½ | 18 5/8 | 23 5/8 | 18 5/8 | 33 1/2 | 20 3/8 | 15 1/2 | 19 | |
| SE-10-3 | 24 | 22½ | 23 5/8 | 28 5/8 | 23 5/8 | 18 5/8 | 33 1/2 | 20 3/8 | 15 1/2 | 24 |
| SE-110-8 | 19 | 17½ | 18 5/8 | 23 5/8 | 23 5/8 | 23 5/8 | 31 1/2 | 25 3/8 | 20 3/8 | 19 |
| SE-210-8 | 24 | 22½ | 23 5/8 | 28 5/8 | 28 5/8 | 23 5/8 | 31 1/2 | 25 3/8 | 20 3/8 | 29 |



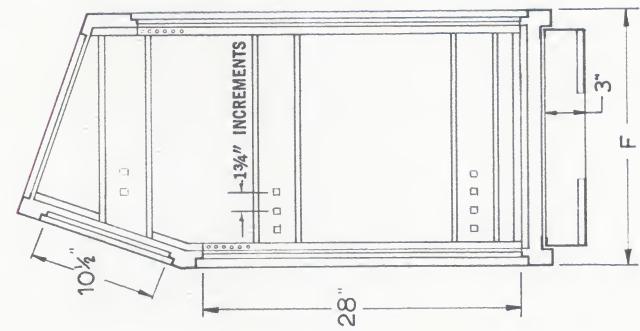
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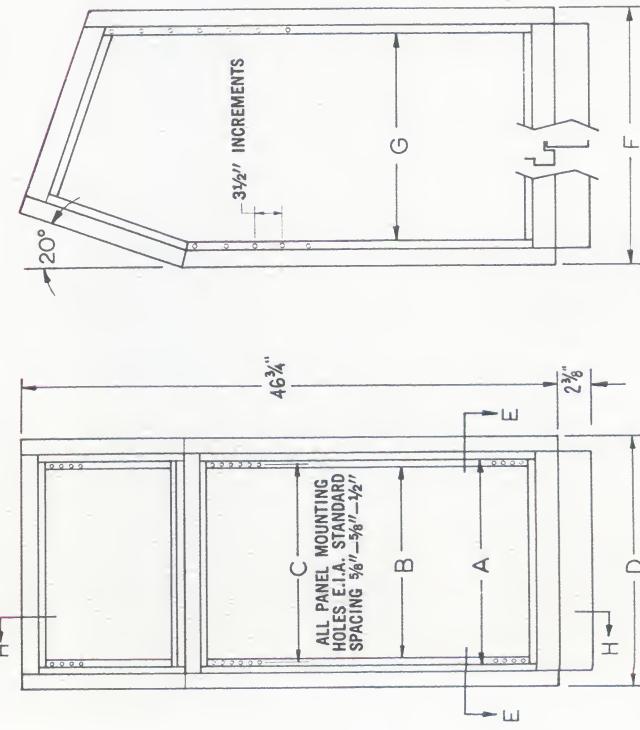
SECTION E-E



FRONT VIEW



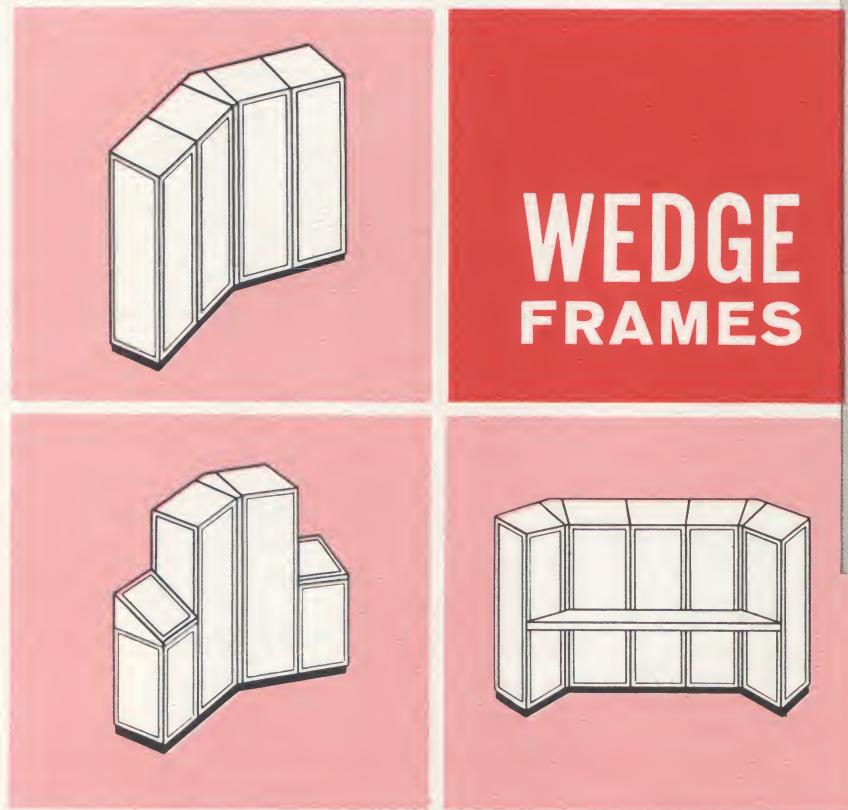
SIDE VIEW



REAR VIEW

FEATURES

- For use in "U" shaped or semi-circular arrangements.
- Made of No. 14 gauge cold rolled steel.
- Supplied with rear panel which is removable from outside.
- Base optional — order only if required.
- Solid top and bottom.
- 60° and 90° wedge frames available on special order.
- Supplied with joining hardware for assembly to vertical frames.
- Finished in Light Gray Enamel.

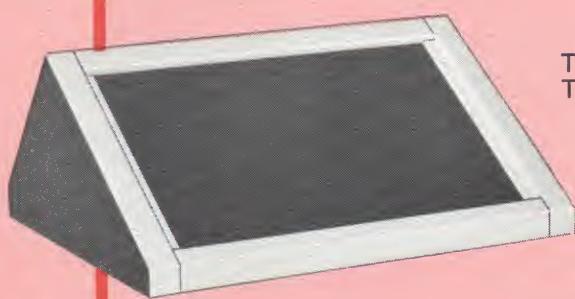


| 23 $\frac{5}{16}$ " DEEP | | | 28 $\frac{5}{16}$ " DEEP | | |
|-----------------------------------|----------|----------|-----------------------------------|----------|----------|
| For Use With Vertical Frame | 30° | 45° | For Use With Vertical Frame | 30° | 45° |
| VE-121-3 & 221-3 | WF-321-3 | WF-421-3 | VE-121-8 & 221-8 | WF-321-8 | WF-421-8 |
| VE-128-3 & 228-3 | WF-328-3 | WF-428-3 | VE-128-8 & 228-8 | WF-328-8 | WF-428-8 |
| VE-135-3 & 235-3 | WF-335-3 | WF-435-3 | VE-135-8 & 235-8 | WF-335-8 | WF-435-8 |
| VE-143-3 & 243-3 | WF-343-3 | WF-443-3 | VE-143-8 & 243-8 | WF-343-8 | WF-443-8 |
| VE-152-3 & 252-3 | WF-352-3 | WF-452-3 | VE-152-8 & 252-8 | WF-352-8 | WF-452-8 |
| VE-161-3 & 261-3 | WF-361-3 | WF-461-3 | VE-161-8 & 261-8 | WF-361-8 | WF-461-8 |
| VE-170-3 & 270-3 | WF-370-3 | WF-470-3 | VE-170-8 & 270-8 | WF-370-8 | WF-470-8 |
| VE-178-3 & 278-3 | WF-378-3 | WF-478-3 | VE-178-8 & 278-8 | WF-378-8 | WF-478-8 |

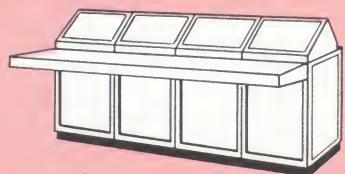
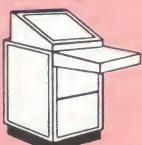
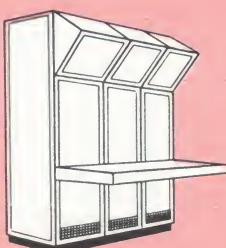
| 19" WIDE PANEL SPACE | Width | Front Panel | Bottom Panel | Rear Panel |
|----------------------|---------------------|--------------------|--------------|-------------------|
| TF-117 | 23 $\frac{5}{8}$ " | 17 $\frac{1}{2}$ " | 14" | 8 $\frac{3}{4}$ " |
| TF-112 | 23 $\frac{5}{16}$ " | 12 $\frac{1}{4}$ " | 14" | 7" |
| 24" WIDE PANEL SPACE | | | | |
| TF-217 | 28 $\frac{5}{8}$ " | 17 $\frac{1}{2}$ " | 14" | 8 $\frac{3}{4}$ " |
| TF-212 | 28 $\frac{5}{16}$ " | 12 $\frac{1}{4}$ " | 14" | 7" |



TF-117
TF-217



TF-112
TF-212



TURRETS

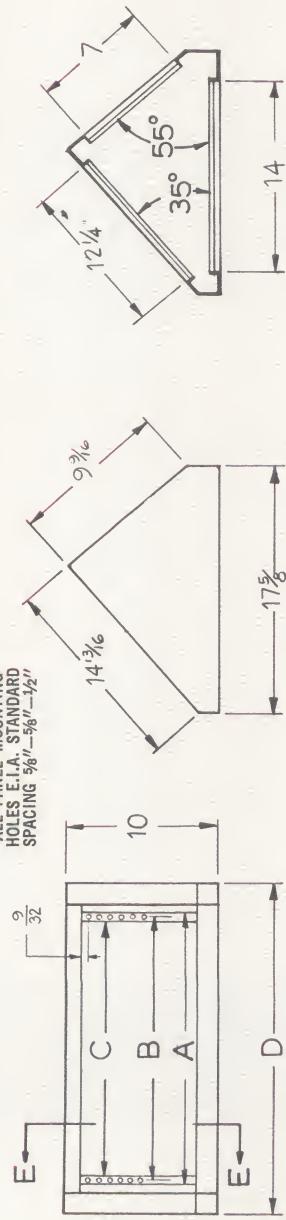
FEATURES

- Constructed of No. 16 gauge cold rolled steel.
- Can be used on benches and tables; positioned on top of desk height frames or vertically mounted.
- Mounts in a variety of positions, 35° or 55° slope.
- May be joined side by side.
- Supplied with all necessary hardware for mounting.
- Finished in Light Gray Enamel.



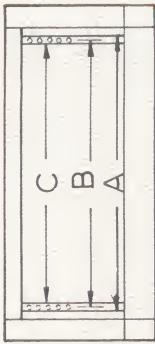
TURRET FRAME / TF SERIES

ALL PANEL MOUNTING
HOLES E.I.A. STANDARD
SPACING $\frac{5}{16}$ " - $\frac{5}{8}$ " - $\frac{1}{2}$ "



FRONT VIEW

REAR VIEW



SIDE VIEW

SECTION E·E

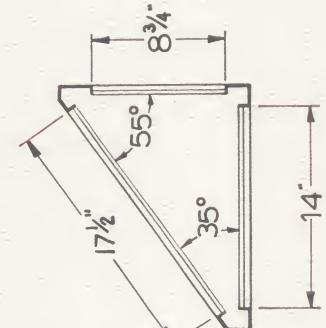
| | A | B | C | D |
|--------|----|-------------------|-------------------|-------------------|
| TF-112 | 19 | 18 $\frac{5}{16}$ | 17 $\frac{1}{16}$ | 23 $\frac{5}{16}$ |
| TF-212 | 24 | 23 $\frac{5}{16}$ | 22 $\frac{1}{16}$ | 28 $\frac{5}{16}$ |

REAR VIEW

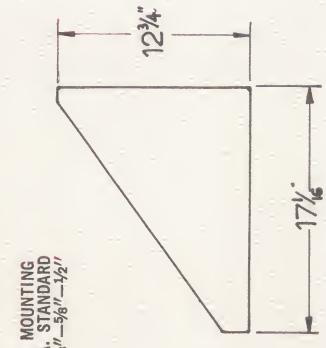


SECTION E·E

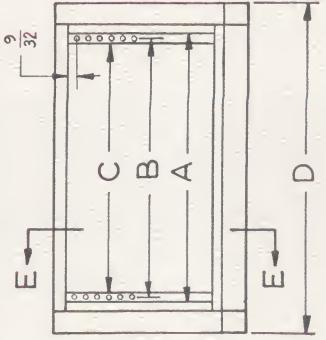
| | A | B | C | D |
|--------|----|-------------------|-------------------|-------------------|
| TF-117 | 19 | 18 $\frac{5}{16}$ | 17 $\frac{1}{16}$ | 23 $\frac{5}{16}$ |
| TF-217 | 24 | 23 $\frac{5}{16}$ | 22 $\frac{1}{16}$ | 28 $\frac{5}{16}$ |



SIDE VIEW



FRONT VIEW





| END PANELS FOR SLOPING FRAME | | | | | |
|--|------------|----------|------------|-----------|------------|
| USE FOR SLOPING FRAMES 23 $\frac{5}{8}$ " DEEP | SCREW-ON | | HINGED | | |
| | Blank | Louvred | Blank | Louvred | |
| SE-110-3 & 210-3 | EP-310R | EP-310RV | RIGHT SIDE | HEP-310R | RIGHT SIDE |
| SE-117-3 & 217-3 | EP-317R | EP-317RV | LEFT SIDE | HEP-317R | HEP-317RV |
| SE-110-3 & 210-3 | EP-310L | EP-310LV | RIGHT SIDE | HEP-310L | HEP-310LV |
| SE-117-3 & 217-3 | EP-317L | EP-317LV | LEFT SIDE | HEP-317L | HEP-317LV |
| USE FOR SLOPING FRAMES 28 $\frac{5}{8}$ " DEEP | RIGHT SIDE | | RIGHT SIDE | | |
| | EP-810R | EP-810RV | HEP-810R | HEP-810RV | |
| SE-110-8 & 210-8 | EP-817R | EP-817RV | HEP-817R | HEP-817RV | |
| SE-117-8 & 217-8 | EP-810L | EP-810LV | LEFT SIDE | HEP-810L | HEP-810LV |
| SE-110-8 & 210-8 | EP-817L | EP-817LV | LEFT SIDE | HEP-817L | HEP-817LV |

FEATURES

- Constructed of No. 18 ga. cold rolled steel.
- Corners are welded for additional strength.
- Flush fitting within frame recess.
- Supplied with rubber bumpers. Panel can be efficiently gasketed when bumpers are removed.
- Assembled at factory.

2 TYPES AVAILABLE

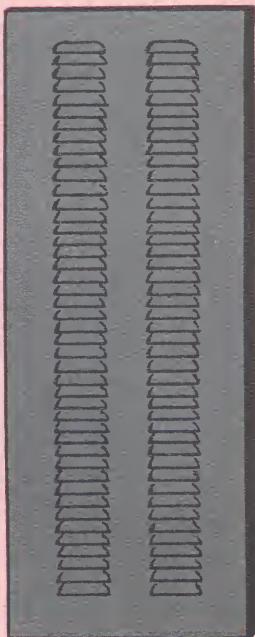
Screw-on Panel from the inside of frame so that screw heads are not visible.

Hinged Panel opens like a door. Reinforced with stiffener section. Fastened with flush latch. Panel may be easily removed in open position. Specify left or right hinging. On sloping panels, left side panels are hinged left and right side panels are hinged right only.

- Panels are available with filters and fan openings. Prices on request.
- Finished in Smoke Gray Enamel.

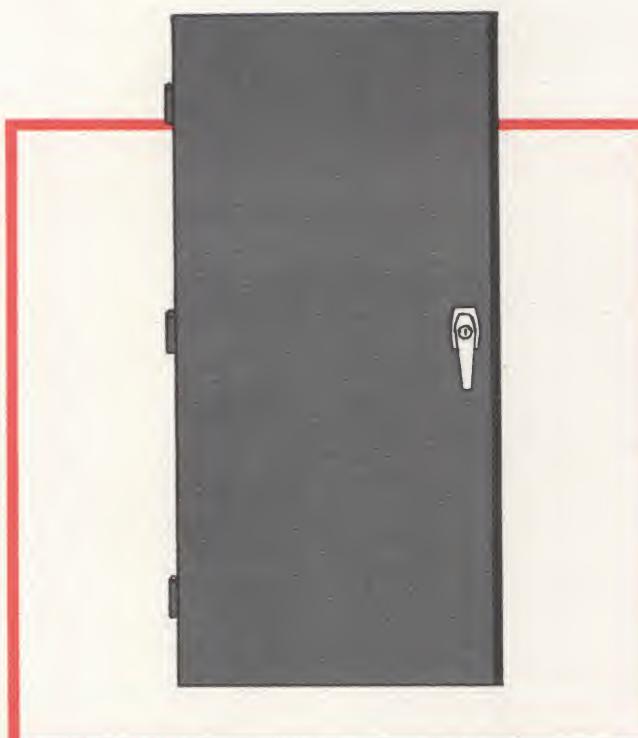
END PANELS

| USE FOR VERTICAL FRAMES 23 $\frac{5}{8}$ " DEEP | END PANELS FOR VERTICAL FRAMES | | | |
|---|--------------------------------|---------|---------|----------|
| | SCREW-ON | | HINGED | |
| | Blank | Louvred | Blank | Louvred |
| VE-121-3 & 221-3 | EP-213 | EP-213V | HEP-213 | HEP-213V |
| VE-128-3 & 228-3 | EP-283 | EP-283V | HEP-283 | HEP-283V |
| VE-135-3 & 235-3 | EP-353 | EP-353V | HEP-353 | HEP-353V |
| VE-143-3 & 243-3 | EP-433 | EP-433V | HEP-433 | HEP-433V |
| VE-152-3 & 252-3 | EP-523 | EP-523V | HEP-523 | HEP-523V |
| VE-161-3 & 261-3 | EP-613 | EP-613V | HEP-613 | HEP-613V |
| VE-170-3 & 270-3 | EP-703 | EP-703V | HEP-703 | HEP-703V |
| VE-178-3 & 278-3 | EP-783 | EP-783V | HEP-783 | HEP-783V |
| USE FOR VERTICAL FRAMES 28 $\frac{5}{8}$ " DEEP | SCREW-ON | | HINGED | |
| | Blank | Louvred | Blank | Louvred |
| VE-121-8 & 221-8 | EP-218 | EP-218V | HEP-218 | HEP-218V |
| VE-128-8 & 228-8 | EP-288 | EP-288V | HEP-288 | HEP-288V |
| VE-135-8 & 235-8 | EP-358 | EP-358V | HEP-358 | HEP-358V |
| VE-143-8 & 243-8 | EP-438 | EP-438V | HEP-438 | HEP-438V |
| VE-152-8 & 252-8 | EP-528 | EP-528V | HEP-528 | HEP-528V |
| VE-161-8 & 261-8 | EP-618 | EP-618V | HEP-618 | HEP-618V |
| VE-170-8 & 270-8 | EP-708 | EP-708V | HEP-708 | HEP-708V |
| VE-178-8 & 278-8 | EP-788 | EP-788V | HEP-788 | HEP-788V |

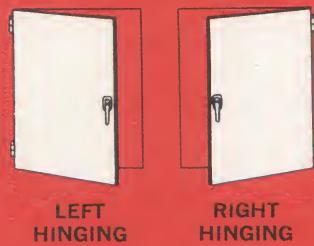


| FOR SLOPING FRAMES—Rear | | |
|-------------------------|--------|---------|
| Frame | Blank | Louvred |
| SE-117-3 | DF-136 | DF-136V |
| SE-117-8 | DF-135 | DF-135V |
| SE-110-3 | DF-133 | DF-133V |
| SE-110-8 | DF-131 | DF-131V |
| SE-217-3 | DF-236 | DF-236V |
| SE-217-8 | DF-235 | DF-235V |
| SE-210-3 | DF-233 | DF-233V |
| SE-210-8 | DF-231 | DF-231V |

| FOR VERTICAL FRAMES—Front and Rear | | |
|------------------------------------|--------|---------|
| Use For Frames | Blank | Louvred |
| VE-121-3 & VE-121-8 | DF-121 | DF-121V |
| VE-128-3 & VE-128-8 | DF-128 | DF-128V |
| VE-135-3 & VE-135-8 | DF-135 | DF-135V |
| VE-143-3 & VE-143-8 | DF-143 | DF-143V |
| VE-152-3 & VE-152-8 | DF-152 | DF-152V |
| VE-161-3 & VE-161-8 | DF-161 | DF-161V |
| VE-170-3 & VE-170-8 | DF-170 | DF-170V |
| VE-178-3 & VE-178-8 | DF-178 | DF-178V |
| VE-221-3 & VE-221-8 | DF-221 | DF-221V |
| VE-228-3 & VE-228-8 | DF-228 | DF-228V |
| VE-235-3 & VE-235-8 | DF-235 | DF-235V |
| VE-243-3 & VE-243-8 | DF-243 | DF-243V |
| VE-252-3 & VE-252-8 | DF-252 | DF-252V |
| VE-261-3 & VE-261-8 | DF-261 | DF-261V |
| VE-270-3 & VE-270-8 | DF-270 | DF-270V |
| VE-278-3 & VE-278-8 | DF-278 | DF-278V |



WHEN ORDERING DOORS SPECIFY
LEFT OR RIGHT HINGING



DOORS

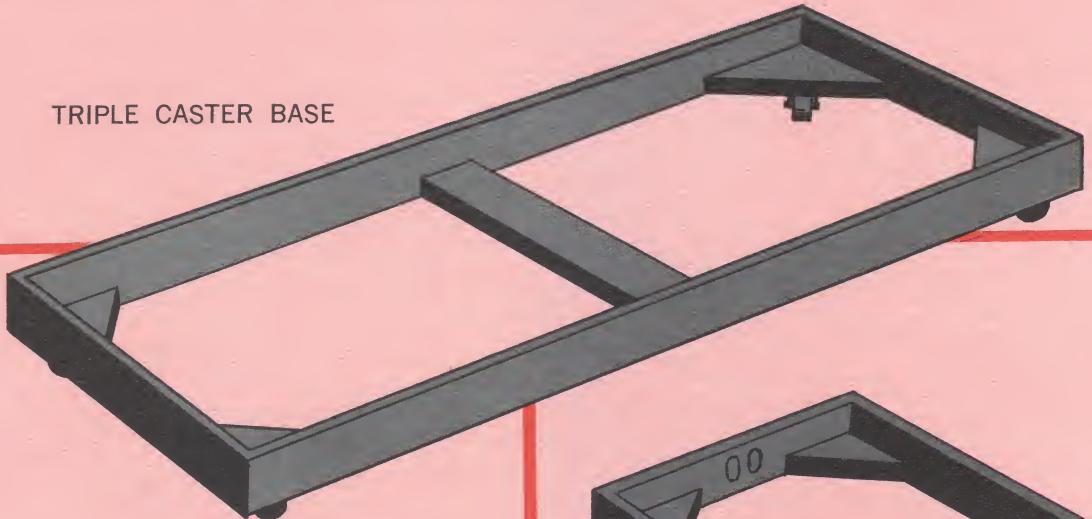
- Flush mounted within frame recess — front or rear
- Constructed of No. 18 gauge cold rolled steel reinforced with stiffener section and welded corners.
- Supplied with satin finish locking handle and positive closure; 2 point locking mechanism.
- Removable pin on hinge permits door to be removed in open position.
- Rubber bumpers on door and frame prevent marring of painted surfaces. Door can be efficiently gasketed when bumpers are removed.
- Doors are designed to be reversed, if necessary, on frames with panel spaces of 43 $\frac{3}{4}$ " or larger by simply removing door and reversing the location of the mounting hardware.
- Doors are available with filters and fan openings — Prices on request.
- Finished in Smoke Gray Enamel.



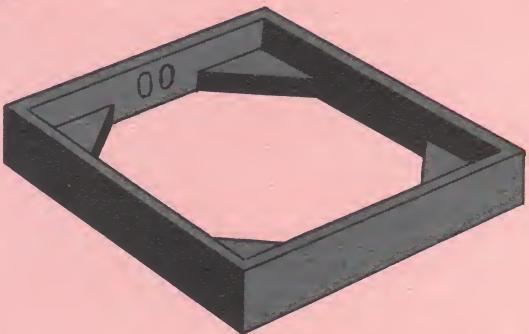
| BASES | | | | | |
|--------------------|--------------------|----------------|--------------|--------------|--------------|
| USE FOR FRAMES | | RE-CESSED BASE | CASTER BASES | | |
| Width | Depth | | Single Width | Double Width | Triple Width |
| 23 $\frac{5}{8}$ " | 23 $\frac{5}{8}$ " | PB-33 | CB-233 | CB-433 | CB-633 |
| 23 $\frac{5}{8}$ " | 28 $\frac{5}{8}$ " | PB-38 | CB-238 | CB-438 | CB-638 |
| 28 $\frac{5}{8}$ " | 23 $\frac{5}{8}$ " | PB-83 | CB-283 | CB-483 | CB-683 |
| 28 $\frac{5}{8}$ " | 28 $\frac{5}{8}$ " | PB-88 | CB-288 | CB-488 | CB-688 |

| WEDGE BASES | |
|----------------------------|----------|
| FOR WEDGE FRAMES | CAT. NO. |
| 30° — 23 $\frac{5}{8}$ " D | WB-30-3 |
| 45° — 23 $\frac{5}{8}$ " D | WB-45-3 |
| 30° — 28 $\frac{5}{8}$ " D | WB-30-8 |
| 45° — 28 $\frac{5}{8}$ " D | WB-45-8 |

TRIPLE CASTER BASE



WEDGE BASE



PONTOON BASE

CMP frames are designed to accommodate two different types of bases.

- Recessed Type Pontoon Base: Fits into bottom recess of frames. Allows toe space on all four sides. Made of No. 14 gauge cold rolled steel. Gussets have provision for floor levellers or mounting to floor. Mounting holes for duplex receivable.
- Caster Bases: Fits flush under frame supplied with four 3" dia. heavy duty swivel hard rubber wheel casters. Available in single, double and triple widths.
- Finished in Light Gray Enamel.

Caster bases may also be ordered:

1. Without casters: to utilize flush bases in single, double and triple width in place of pontoon bases — if required.
2. With 4" dia. casters. Optional at additional cost.
3. With 3" dia. casters and foot lock. Optional at additional cost.

BASES

TOP PANELS ■ Supplied with rubber bumpers ■ Easily gasketed ■ Finished in Smoke Gray Enamel

TOP PANELS FOR VERTICAL FRAMES



| USE FOR FRAME | | Blank | Louvred | Plastic Laminated | Lift Door |
|---------------------|---------------------|-------|---------|-------------------|-----------|
| Width | Depth | | | | |
| 23 $\frac{5}{16}$ " | 23 $\frac{5}{16}$ " | TP-13 | TP-13V | TP-13F | TP-13H |
| 23 $\frac{5}{16}$ " | 28 $\frac{5}{16}$ " | TP-18 | TP-18V | TP-18F | TP-18H |
| 28 $\frac{5}{16}$ " | 23 $\frac{5}{16}$ " | TP-23 | TP-23V | TP-23F | TP-23H |
| 28 $\frac{5}{16}$ " | 28 $\frac{5}{16}$ " | TP-28 | TP-28V | TP-28F | TP-28H |

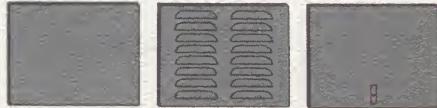
TOP PANEL WITH HOLE FOR MOUNTING FAN



| FRAME DIMENSIONS W D | FOR FANS | | | |
|---|----------------------------|---------|---------|----------|
| | FA-165 FA-200 FA-300 | FA-400 | FA-550 | FA-750 |
| 23 $\frac{5}{16}$ " X 23 $\frac{5}{16}$ " | TP-13-6 | TP-13-8 | TP-13-9 | TP-13-10 |
| 23 $\frac{5}{16}$ " X 28 $\frac{5}{16}$ " | TP-18-6 | TP-18-8 | TP-18-9 | TP-18-10 |
| 28 $\frac{5}{16}$ " X 23 $\frac{5}{16}$ " | TP-23-6 | TP-23-8 | TP-23-9 | TP-23-10 |
| 28 $\frac{5}{16}$ " X 28 $\frac{5}{16}$ " | TP-28-6 | TP-28-8 | TP-28-9 | TP-28-10 |

TOP PANELS

TOP PANELS FOR SLOPING FRAMES



| For | Blank | Louvred | Lift Door |
|----------|--------|---------|-----------|
| SE-117-3 | TP-173 | TP-173V | TP-173H |
| SE-117-8 | TP-178 | TP-178V | TP-178H |
| SE-110-3 | TP-103 | TP-103V | TP-103H |
| SE-110-8 | TP-108 | TP-108V | TP-108H |
| SE-217-3 | TP-273 | TP-273V | TP-273H |
| SE-217-8 | TP-278 | TP-278V | TP-278H |
| SE-210-3 | TP-203 | TP-203V | TP-203H |
| SE-210-8 | TP-208 | TP-208V | TP-208H |



Flat Panel No. 16 ga. with four mounting holes to close bottom opening in frame. Finished in Light Gray Enamel.



| FRAME DIMENSIONS | CAT. NO. |
|---|----------|
| 23 $\frac{5}{16}$ " X 23 $\frac{5}{16}$ " | BP-33 |
| 23 $\frac{5}{16}$ " X 28 $\frac{5}{16}$ " | BP-38 |
| 28 $\frac{5}{16}$ " X 23 $\frac{5}{16}$ " | BP-83 |
| 28 $\frac{5}{16}$ " X 28 $\frac{5}{16}$ " | BP-88 |

BOTTOM PANELS

**STANDARD
PANELS
AND
FLUSH
DOORS**

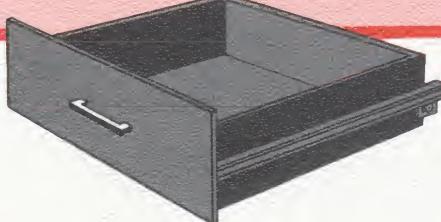
| Size | Steel 5/8 x 19" Formed Panel Blank | Steel 5/8 x 19" Formed Panel Louvred | Steel 5/8 x 24" Formed Panel Blank | Steel 5/8 x 24" Formed Panel Louvred | Aluminum 1/8 x 19" Blank Panel | Aluminum 1/8 x 24" Blank Panel | Flush Door 5/8 x 19" Blank | Flush Door 5/8 x 19" Louvred | Flush Door 5/8 x 24" Blank | Flush Door 5/8 x 24" Louvred |
|---------|--|--|--|--|---|---|-------------------------------------|---------------------------------------|-------------------------------------|---------------------------------------|
| 1 3/4" | SP-1 | — | SP-124 | — | AP-1 | AP-124 | — | — | — | — |
| 3 1/2" | SP-3 | — | SP-324 | — | AP-3 | AP-324 | — | — | — | — |
| 5 1/4" | SP-5 | — | SP-524 | — | AP-5 | AP-524 | — | — | — | — |
| 7" | SP-7 | SP-7V | SP-724 | SP-724V | AP-7 | AP-724 | — | — | — | — |
| 8 3/4" | SP-8 | SP-8V | SP-824 | SP-824V | AP-8 | AP-824 | — | — | — | — |
| 10 1/2" | SP-10 | SP-10V | SP-1024 | SP-1024V | AP-10 | AP-1024 | FD-10 | FD-10V | FD-1024 | FD-1024V |
| 12 1/4" | SP-12 | SP-12V | SP-1224 | SP-1224V | AP-12 | AP-1224 | FD-12 | FD-12V | FD-1224 | FD-1224V |
| 14" | SP-14 | SP-14V | SP-1424 | SP-1424V | AP-14 | AP-1424 | FD-14 | FD-14V | FD-1424 | FD-1424V |
| 15 3/4" | SP-15 | SP-15V | SP-1524 | SP-1524V | AP-15 | AP-1524 | — | — | — | — |
| 17 1/2" | SP-17 | SP-17V | SP-1724 | SP-1724V | AP-17 | AP-1724 | FD-17 | FD-17V | FD-1724 | FD-1724V |
| 19 1/4" | SP-19 | SP-19V | SP-1924 | SP-1924V | AP-19 | AP-1924 | — | — | — | — |
| 21" | SP-21 | SP-21V | SP-2124 | SP-2124V | AP-21 | AP-2124 | FD-21 | FD-21V | FD-2124 | FD-2124V |
| 24 1/2" | SP-24 | SP-24V | SP-2424 | SP-2424V | AP-24 | AP-2424 | FD-24 | FD-24V | FD-2424 | FD-2424V |
| 28" | SP-28 | SP-28V | SP-2824 | SP-2824V | AP-28 | AP-2824 | FD-28 | FD-28V | FD-2824 | FD-2824V |
| 35" | SP-35 | SP-35V | SP-3524 | SP-3524V | AP-35 | AP-3524 | FD-35 | FD-35V | FD-3524 | FD-3524V |
| 36 3/4" | SP-36 | SP-36V | SP-3624 | SP-3624V | — | — | — | — | — | — |
| 43 3/4" | SP-43 | SP-43V | SP-4324 | SP-4324V | — | — | — | — | — | — |
| 52 1/2" | SP-52 | SP-52V | SP-5224 | SP-5224V | — | — | — | — | — | — |
| 61 1/4" | SP-61 | SP-61V | SP-6124 | SP-6124V | — | — | — | — | — | — |
| 70" | SP-70 | SP-70V | SP-7024 | SP-7024V | — | — | — | — | — | — |
| 78 3/4" | SP-78 | SP-78V | SP-7824 | SP-7824V | — | — | — | — | — | — |

DRAWERS

- Available in 4 heights
- Made of No. 16 gauge steel
- Front panel $\frac{1}{8}$ " formed to conform with panels
- Handsome satin finish pull handle
- 75 lb. capacity
- Mounts to front and rear angles

| FOR 19" PANEL WIDTH | | | | | |
|----------------------------------|-----------------|-----------------|------------------|-----------------|-----------------------------------|
| For 23 3/4" Deep Frames | Panel Height | Inside Width | Inside Height | Inside Depth | For 28 3/16" Deep Frames |
| DR-3 | 3 1/2" | 16 1/4" | 2 1/8" | 16" | DR-38 |
| DR-7 | 7" | 16 1/4" | 6" | 16" | DR-78 |
| DR-10 | 10 1/2" | 16 1/4" | 8" | 16" | DR-108 |
| DR-14 | 14" | 16 1/4" | 8" | 16" | DR-148 |

| FOR 24" PANEL WIDTH | | | | | |
|---------------------|---------|---------|--------|-----|-----------|
| DR-3-24 | 3 1/2" | 21 1/4" | 2 1/8" | 16" | DR-38-24 |
| DR-7-24 | 7" | 21 1/4" | 6" | 16" | DR-78-24 |
| DR-10-24 | 10 1/2" | 21 1/4" | 8" | 16" | DR-108-24 |
| DR-14-24 | 14" | 21 1/4" | 8" | 16" | DR-148-24 |


FLUSH DOORS

- Mounts to panel mounting angles
- Available blank or louvred
- Fastened with captive screws
- Mounts on left or right hinging
- Made of No. 16 gauge steel

ACCESSORIES

FINISHED IN SMOKE GRAY ENAMEL

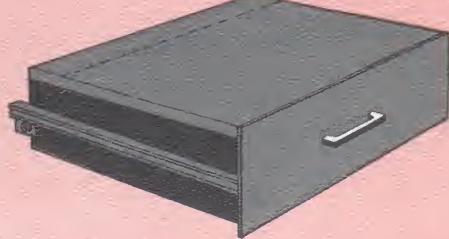
STANDARD PANELS

- 5/8" Deep — formed 19" and 24" Steel 16 ga.
- 5/8" Deep — formed louvred 19" and 24" steel 16 ga.
- 1/8" Aluminum flat — 19" and 24"


RETRACTABLE SLIDING SHELF AND DRAWER

- Takes minimum of 3 1/2" panel space
- Combination writing surface and storage drawer
- Plastic laminated hinged writing surface

| For Frames — 19" Panel Width | 23 3/16" Deep 28 3/16" Deep | RS-3 RS-38 |
|---------------------------------|--------------------------------|--------------------|
| For Frames — 24" Panel Width | 23 3/16" Deep 28 3/16" Deep | RS-324 RS-324-8 |



| Length | Clearance Holes Both Legs | Tapped on one Leg Clearance Holes other Leg |
|--------|------------------------------|--|
| 21" | MA-21 | TMA-21 |
| 24½" | MA-24 | TMA-24 |
| 28" | MA-28 | TMA-28 |
| 35" | MA-35 | TMA-35 |
| 36¾" | MA-36 | TMA-36 |
| 43¾" | MA-43 | TMA-43 |
| 52½" | MA-52 | TMA-52 |
| 61¼" | MA-61 | TMA-61 |
| 70" | MA-70 | TMA-70 |
| 78¾" | MA-78 | TMA-78 |



SHELVES

- Made of No. 16 gauge steel
- Mount to inside leg of panel mounting angle
- May be mounted to practically any vertical position
- Finish in Light Gray Enamel

| Cat. No. | To fit Frame | |
|----------|--------------|-------|
| | Width | Depth |
| SH-33 | 23¾" x | 23¾" |
| SH-38 | 23¾" x | 28½" |
| SH-83 | 28½" x | 23¾" |
| SH-88 | 28½" x | 28½" |

PANEL MOUNTING ANGLES

- 1¼" x 1¼" of No. 11 gauge steel
- ¼" dia. clearance holes on E-I-A spacings ⅛"-⅜"-½" on both legs
- Sold in pairs—complete with mounting hardware
- One leg tapped 10/32 optional at additional cost
- Finished in Light Gray Enamel



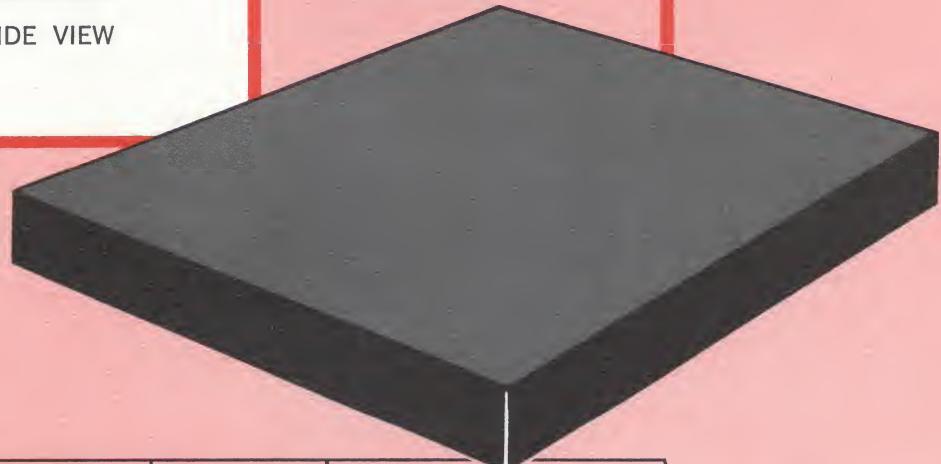
CHASSIS AND EQUIPMENT SUPPORTS

- Made of No. 11 gauge steel
- Mount to inside leg of panel mounting angle
- May be mounted to practically any vertical position
- Finished in Light Gray Enamel

| Cat. No. | |
|----------|---------------------|
| SS-23 | For 23¾" deep racks |
| SS-28 | For 28½" deep racks |

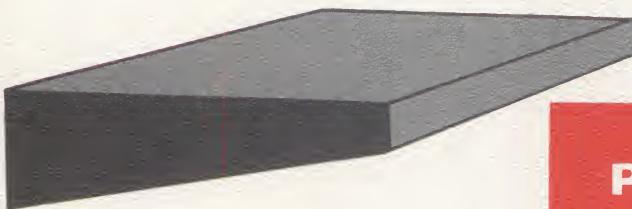


- Non-reflective, smudge-proof, slate finish laminated plastic
- Fits on top of desk or counter height frames
- Overlaps front, back and sides
- Self edged on all 4 sides
- 3" high
- Supplied with all necessary hardware for mounting



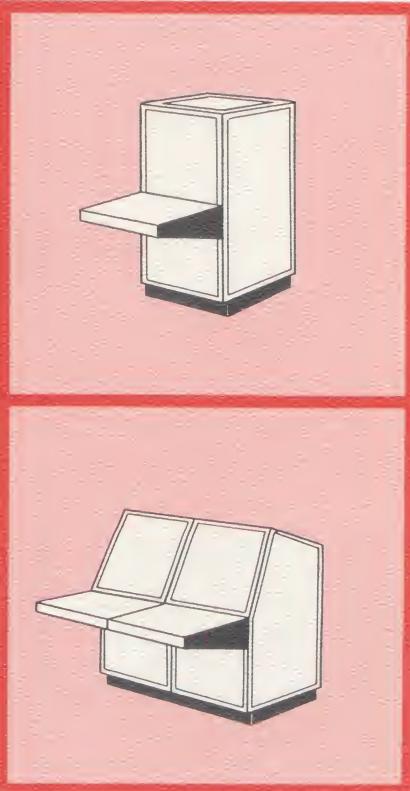
| Use For Frames | Single Width | Double Width | Triple Width |
|---|--------------|--------------|--------------|
| 23 $\frac{5}{16}$ " Wide x 23 $\frac{5}{16}$ " Deep | FCT-19-S | FCT-19-D | FCT-19-T |
| 23 $\frac{5}{16}$ " Wide x 28 $\frac{5}{16}$ " Deep | FCT-198-S | FCT-198-D | FCT-198-T |
| 28 $\frac{5}{16}$ " Wide x 23 $\frac{5}{16}$ " Deep | FCT-24-S | FCT-24-D | FCT-24-T |
| 28 $\frac{5}{16}$ " Wide x 28 $\frac{5}{16}$ " Deep | FCT-248-S | FCT-248-D | FCT-248-T |

| FOR SLOPING FRAMES | | | | | | |
|--|---------------|--------------|--------------|---------------|--------------|--------------|
| For Frames | 15" Deep Tops | | | 18" Deep Tops | | |
| | Single Width | Double Width | Triple Width | Single Width | Double Width | Triple Width |
| 23 $\frac{5}{8}$ " Wide | WT-151-S | WT-151-D | WT-151-T | WT-181-S | WT-181-D | WT-181-T |
| 28 $\frac{5}{8}$ " Wide | WT-251-S | WT-251-D | WT-251-T | WT-281-S | WT-281-D | WT-281-T |
| FOR VERTICAL FRAMES WITH PANEL HEIGHT OF 21" & 28" | | | | | | |
| 23 $\frac{5}{8}$ " Wide | WT-153-S | WT-153-D | WT-153-T | WT-183-S | WT-183-D | WT-183-T |
| 28 $\frac{5}{8}$ " Wide | WT-253-S | WT-253-D | WT-253-T | WT-283-S | WT-283-D | WT-283-T |
| FOR VERTICAL FRAMES WITH PANEL HEIGHT OF 35" OR HIGHER | | | | | | |
| 23 $\frac{5}{8}$ " Wide | WT-152-S | WT-152-D | WT-152-T | WT-182-S | WT-182-D | WT-182-T |
| 28 $\frac{5}{8}$ " Wide | WT-252-S | WT-252-D | WT-252-T | WT-282-S | WT-282-D | WT-282-T |



- Non-reflective, smudge-proof, slate finish laminated plastic
- No internal obstruction
- 15" and 18" depth
- Supplied with all necessary hardware for mounting

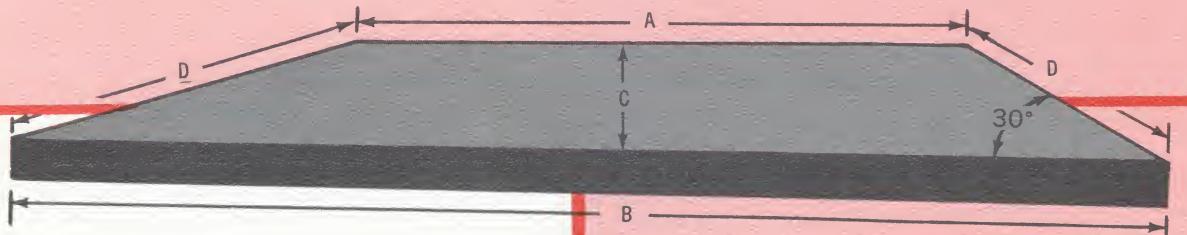
PLASTIC LAMINATED WORK WRITING TOPS



FOR USE WITH "U" SHAPED OR SEMI-CIRCULAR CONSOLE ARRANGEMENTS
Made of non-reflective, smudge-proof slate finish laminated plastic

ORDERING INFORMATION

For use with sloped frames add suffix -1
 For use with vertical frames 35" panel space or higher add suffix -2
 For use with vertical frames 21" & 28" panel space or higher add suffix -3
 For use with combination of sloped frames and vertical frames and submit sketch of planned console add suffix -4
 The shelves above are only a few of the possible configurations available with the CMP enclosure system. The variety is unlimited. Submit sketches of proposed plastic laminated shelves for quotation. A variety of colors are also available.



| CAT NO. | No. of Frames | A | B | C | D |
|--------------|---------------|---------------------|---------------------|--------------------|---------------------|
| For 19" Wide | | | | | |
| FWA 419-30 | 4 | 46 $\frac{5}{8}$ " | 89 $\frac{5}{8}$ " | 12 $\frac{3}{8}$ " | 24 $\frac{1}{16}$ " |
| FWA 519-30 | 5 | 70" | 113" | 12 $\frac{3}{8}$ " | 24 $\frac{1}{16}$ " |
| FWA 619-30 | 6 | 93 $\frac{1}{4}$ " | 136 $\frac{1}{4}$ " | 12 $\frac{3}{8}$ " | 24 $\frac{1}{16}$ " |
| For 24" Wide | | | | | |
| FWA 424-30 | 4 | 56 $\frac{5}{8}$ " | 108 $\frac{1}{4}$ " | 14 $\frac{7}{8}$ " | 29 $\frac{1}{16}$ " |
| FWA 524-30 | 5 | 85" | 136 $\frac{5}{8}$ " | 14 $\frac{7}{8}$ " | 29 $\frac{1}{16}$ " |
| FWA 624-30 | 6 | 113 $\frac{1}{4}$ " | 164 $\frac{7}{8}$ " | 14 $\frac{7}{8}$ " | 29 $\frac{1}{16}$ " |

FOR USE WITH 30° WEDGES

| CAT NO. | No. of Frames | A | B | C | D |
|--------------|---------------|---------------------|---------------------|--------------------|---------------------|
| For 19" Wide | | | | | |
| FWA 419-45 | 4 | 46 $\frac{5}{8}$ " | 81 $\frac{5}{8}$ " | 17 $\frac{1}{2}$ " | 24 $\frac{1}{16}$ " |
| FWA 519-45 | 5 | 70" | 105" | 17 $\frac{1}{2}$ " | 24 $\frac{1}{16}$ " |
| FWA 619-45 | 6 | 93 $\frac{1}{4}$ " | 128 $\frac{1}{4}$ " | 17 $\frac{1}{2}$ " | 24 $\frac{1}{16}$ " |
| For 24" Wide | | | | | |
| FWA 424-45 | 4 | 56 $\frac{5}{8}$ " | 98 $\frac{5}{8}$ " | 21" | 29 $\frac{1}{16}$ " |
| FWA 524-45 | 5 | 85" | 127" | 21" | 29 $\frac{1}{16}$ " |
| FWA 624-45 | 6 | 113 $\frac{1}{4}$ " | 155 $\frac{1}{4}$ " | 21" | 29 $\frac{1}{16}$ " |

PLASTIC LAMINATED CONSOLE SHELVES

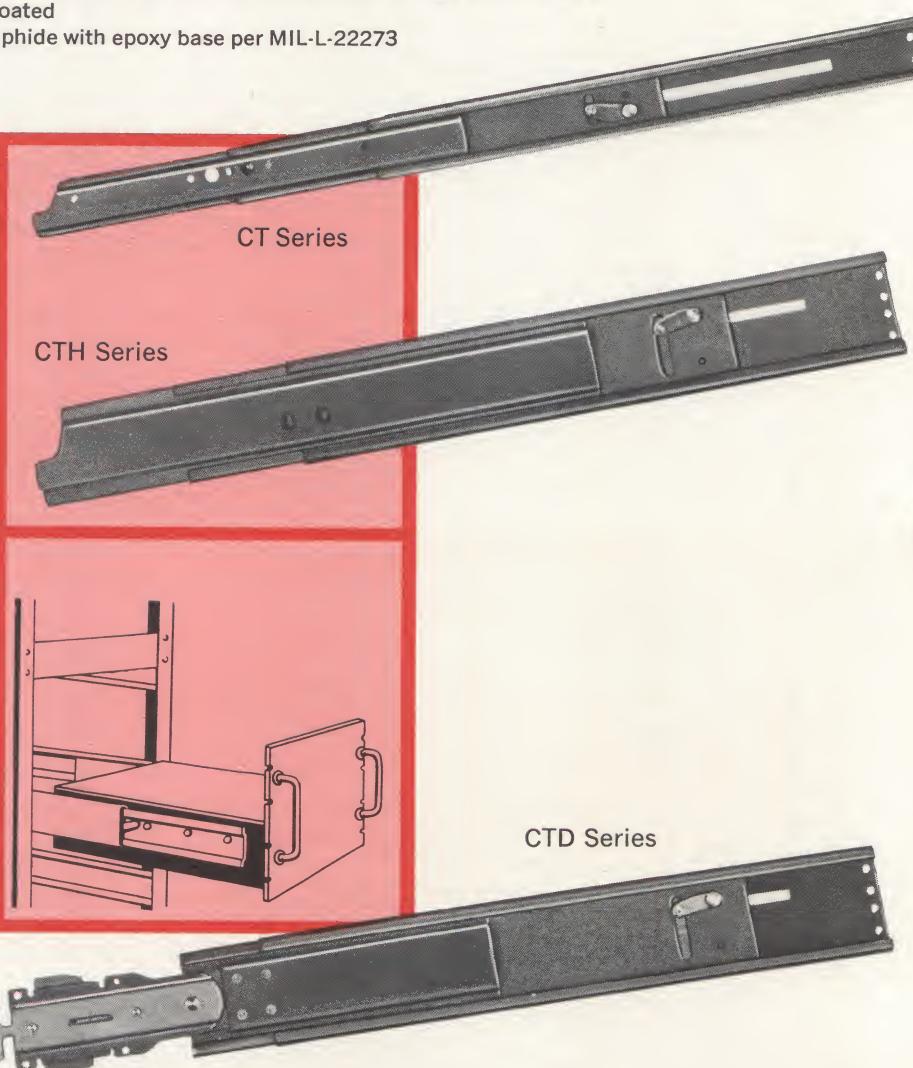


FOR USE WITH 45° WEDGES

- 75 lb. & 175 lbs. load ratings (fully extended)
- Mounts standard 17" chassis for 19" panel space or 22" wide chassis for 24" panel space
- All models have "quick disconnect" feature allowing for removal of chassis
- Positive extended locking position
- Detent model tilts & locks at 90° up or down
- Slides provided with all necessary mounting hardware
- Standard (non detent) models supplied with tilting hardware
- Rear bracket has adjustment of 2 inches
- Slide mounts to panel mounting angles
- Material & finish: Slide members — cold rolled steel, zinc plated per MIL-QQ-2-325 class 2 Type 11 and olive drab iridite coated
- Lubrication: Molybdenum disulphide with epoxy base per MIL-L-22273

STEEL SOLID BEARING CHASSIS

SLIDES



| Cat. No. | Length of slide | Load Rating |
|----------|-----------------|-------------|
| CT-16 | 16" | 75 lbs. |
| CT-20 | 20" | 75 lbs. |
| CT-24 | 24" | 75 lbs. |
| CTH-16 | 16" | 175 lbs. |
| CTH-20 | 20" | 175 lbs. |
| CTH-24 | 24" | 175 lbs. |
| CTD-16* | 16" | 175 lbs.* |
| CTD-20* | 20" | 175 lbs.* |
| CTD-24* | 24" | 175 lbs.* |

*Detent and Disconnect Models

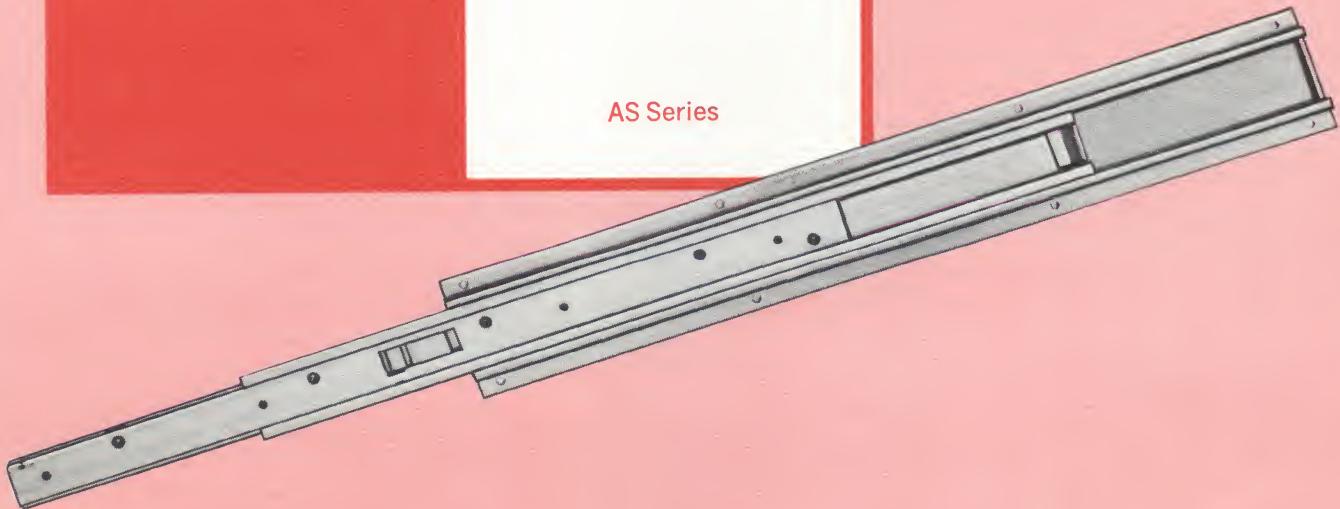
FEATURES

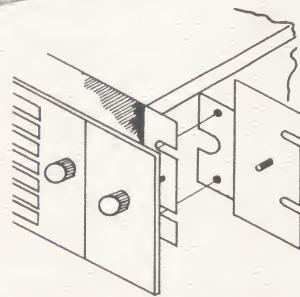
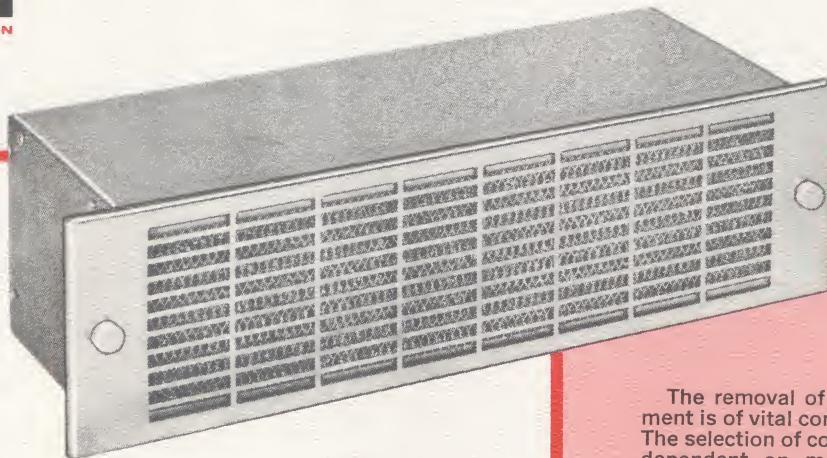
- 100 lb. load rating (fully extended)
- "Quick disconnect" feature
- Locks in extended position
- Rear bracket has adjustment of 2 inches
- Mounts to panel mounting angles
- Provided with all necessary mounting hardware
- Material and finish: Slide members high strength aluminum alloy. Ferrous parts, carbon steel finish per QQ-P-416 or stainless steel

ALUMINUM BALL BEARING SLIDES

| Cat. No. | Length of slide |
|----------|-----------------|
| AS-16 | 16" |
| AS-20 | 20" |
| AS-24 | 24" |

AS Series





24" ADAPTER

Permits mounting any 19" CMP Blower in a cabinet designed for 24" panels. A 16 gauge flange has EIA notching at each end, bolts to channel and to 19" blower flanges. When installed, a rectangular plate with captive nut covers adapter and is finished identically with adjoining grille. These adapters are non-structural and blower must be supported at rear.

| Cat. No. | Panel Height | Cat. No. | Panel Height |
|----------|--------------|----------|--------------|
| BA-324 | 3½" | BA-824 | 8¾" |
| BA-524 | 5¼" | BA-1024 | 10½" |
| BA-724 | 7" | | |

PACKAGED BLOWERS

The removal of heat from electronic equipment is of vital concern to the design engineer. The selection of cooling equipment is of course dependent on many environmental factors. The most popular and effective method, from the standpoint of cost, space, and power is "forced air cooling."

SPECIFICATIONS

Motors

- Double-shielded precision ball bearing
- Bearings meet Fed. Spec. #FF-B-171A
- Lubricant used has range from -29°C to +148°C; providing protection exceeding Mil-G-3278 requirements under severe high temperature conditions
- 115 Volts, 50/60 cycle current standard
- All standard motors meet specification #CC-M-636A
- Permanently lubricated

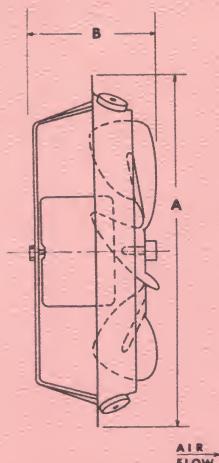
Filter

- Permanent
- Washable and reusable
- Multiple layers of knitted aluminum encased in aluminum channel frame

Front Grille

- Chrome plated C.R. Steel
- Knurled-head fasteners for easy removal
- Grille pattern: 65% open
- Blower case painted Gray Enamel over zinc chromate primer
- Rotating parts neoprene shock-mounted and isolated from enclosure
- Minimum of 36" type SJ 3-wire cord with molded plug included internally grounded, securely locked to case by strain-relief bushing
- Exhaust guards are supplied on blowers with scoop discharge wire.

| Cat. No. | Panel Height | Depth | CFM at 0° | Speed | Amps | Watts | Discharge |
|-----------|--------------|-------|-----------|-------|------|-------|---------------------|
| BL-160 | 3½" | 8¾" | 160 | 1500 | 1.2 | 90 | Back |
| BL-150 | 5¼" | 7" | 150 | 3000 | 1.5 | 120 | Back-Scoop |
| BL-300 | 5¼" | 7" | 300 | 3000 | 1.0 | 90 | Back-Scoop |
| BL-280 | 7" | 10" | 280 | 1500 | .8 | 78 | Back-Scoop |
| BL-375 | 7" | 10" | 375 | 3000 | 24 | 260 | Back-Scoop |
| BL-405 | 8¾" | 11" | 405 | 1500 | 1.2 | 125 | Back-Scoop |
| BL-500 | 8¾" | 12" | 500 | 1500 | 1.6 | 170 | Top-Rear |
| BL-840 | 10½" | 13½" | 840 | 1725 | 3.2 | 330 | Top-Rear |
| BL-300-PC | 5¼" | 6¼" | 300 | 3000 | 1.0 | 90 | Broad for PC Boards |



| Cat. No. | CFM at 0 | Blade Dia. | (A) Diameter | (B) Depth | Motor Speed | Amps. | Watts |
|----------|----------|------------|--------------|-----------|-------------|-------|-------|
| FA-165 | 165 | 6½" | 8½" | 2¾" | 1650 | .35 | 20 |
| FA-220 | 220 | 6½" | 8½" | 3¼" | 1550 | .37 | 25 |
| FA-300 | 300 | 6½" | 8½" | 4½" | 3000 | .9 | 65 |
| FA-400 | 400 | 8" | 10½" | 3½" | 1460 | .63 | 46 |
| FA-550 | 550 | 9" | 11½" | 4¾" | 1600 | 1.4 | 90 |
| FA-750 | 750 | 10" | 12½" | 4¾" | 1560 | 1.45 | 105 |



Designed for removing heat from racks.

- Fan and motor assembly is shock mounted to assure minimum noise and vibration
- Permanently lubricated ball bearings, shaded pole motors
- Provided with 24" heavy duty lead, stripped and soldered
- Motor single phase AC, 115 volt, 50/60 cycles
- Full range of mounting accessories available: grille, guard and sleeve

EXHAUST FANS

ACCESSORIES

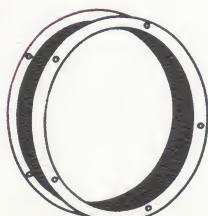


For use with

Cat. No.
FA-165
FA-220
FA-300
FA-400
FA-550
FA-750

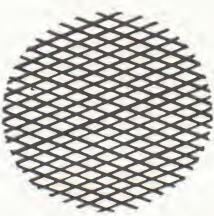
GUARD

Cat. No.
FG-6
FG-6
FG-6
FG-8
FG-9
FG-10



SLEEVE

Cat. No.
FS-6
FS-6
FS-6
FS-8
FS-9
FS-10



GRILLE

Cat. No.
FR-6
FR-6
FR-6
FR-8
FR-9
FR-10

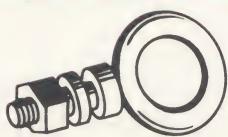
ACCESSORIES



JOINING KIT FOR MULTIPLE ASSEMBLIES

- For joining frames side-by-side or front-to-back
- Kit consists of 4, 6, or 8 spacers and all necessary hardware for mounting
- Mounts easily to recessed flange on sides, or when mounting front-to-back, to panel mounting angles

| Side-By-Side | Panel Space-Height | Front-to-Back |
|--------------|--|---------------|
| SK-4 | 21", 28", 35" | FK-4 |
| SK-6 | 43 $\frac{3}{4}$ ", 52 $\frac{1}{2}$ ", 61 $\frac{1}{4}$ " | FK-6 |
| SK-8 | 70", 78 $\frac{3}{4}$ " | FK-8 |



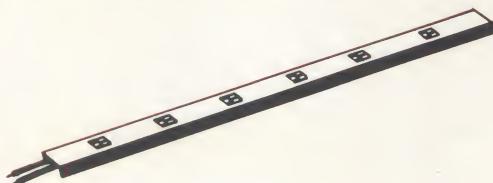
LIFTING EYE BOLT ASSEMBLY Cat. No. EB-4

- Kit consists of 4 eye bolts and threaded nut block
- Eye Bolts — $\frac{1}{2}$ "-13 with L.D. of $1\frac{3}{16}$ "
- Holes for eye bolts supplied in top of frame, at factory

"TOUCH UP" LACQUER

16 oz. pressurized spray can. Available in light gray and smoke gray.

| Cat. No. | Finish |
|----------|------------|
| LAC-1 | Light gray |
| LAC-2 | Smoke gray |



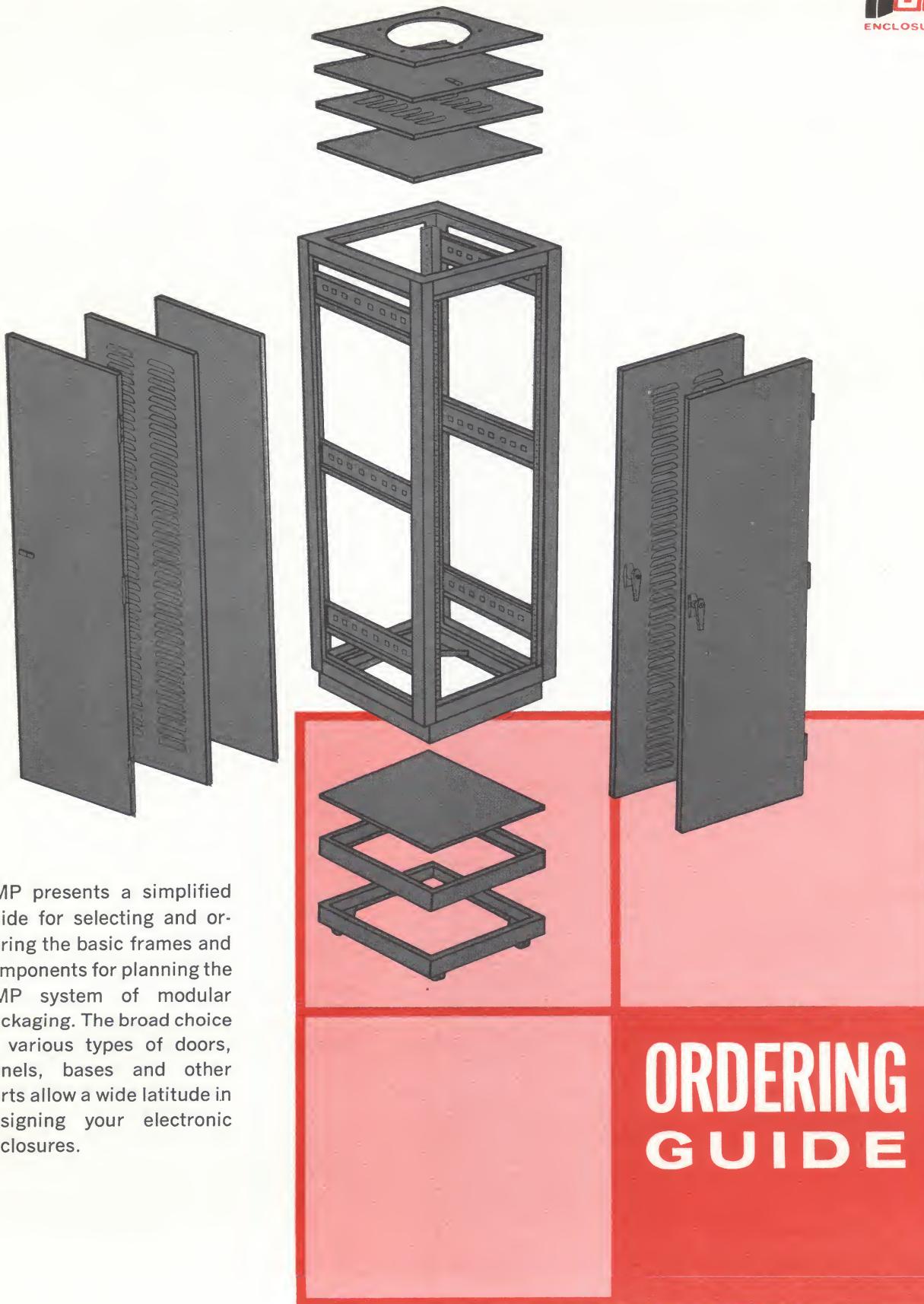
PLUGMOLD WIRED OUTLET STRIP

- ASA Standard 3-wire, single circuit, grounding
- Third Wire is insulated copper ground
- Used for 15 amp, 125 volt wiring
- UL approved
- Finished in Light Gray Enamel

| Cat. No. | Length | No. of Outlets | Spacing |
|----------|--------|----------------|---------|
| PM-36 | 36" | 6 | 6" |
| PM-60 | 60" | 10 | 6" |
| PM-72 | 72" | 12 | 6" |

HARDWARE

| Cat. No. | Item |
|----------|---|
| HW-1 | Leveling Feet (set of 4) |
| HW-2 | Door Handle, Locking Assembly with 2 Keys |
| HW-3 | 3 wire Duplex Receptacle for Pontoon Base |
| HW-4 | Package of 40 Phillips Head Screws & Tinnerman Speed Nuts for Mounting Panels |
| HW-5 | Handle for Drawers and Flush Doors |
| HW-6 | Nut Retainer $\frac{1}{4}$ -20 for Angle Supports |
| HW-7 | Hex Head $\frac{1}{4}$ -20 Machine Screw for Fastening Angles to Angle Supports |
| HW-8 | Twin Tinnerman Speed Nut for Fastening Hinges to Frame |
| HW-9 | Twin Tinnerman Speed Nut for Fastening Hinges to Door |
| HW-10 | Tinnerman Speed Nut for Fastening Side and Top Panels |
| HW-11 | Tinnerman Speed Nut for Fastening Angle Supports to Frame |
| HW-12 | Counter Sunk Phillips Head Screw for Mounting Hinges |
| HW-13 | 10/32 x $1\frac{1}{8}$ " Machine Screw |
| HW-14 | 10B- $\frac{1}{2}$ Phillips Head |
| HW-15 | 6B- $\frac{1}{2}$ Phillips Head |
| HW-16 | 10B- $1\frac{1}{8}$ Phillips Head |
| HW-17 | 10B- $2\frac{1}{4}$ Phillips Head |
| HW-18 | Door Bumpers |
| HW-19 | Drawer Slides |
| HW-20 | 10B- $1\frac{1}{8}$ Phillips Head Screw for Mounting Panels |
| HW-21 | Tinnerman Speed Nut for Mounting Panels |
| HW-22 | Large Hartwell Latch for Hinged Side Panel |



CMP presents a simplified guide for selecting and ordering the basic frames and components for planning the CMP system of modular packaging. The broad choice of various types of doors, panels, bases and other parts allow a wide latitude in designing your electronic enclosures.

ORDERING GUIDE

| FRAME NO. | PANEL SPACE | | PANEL SCREW-ON | PANEL SCREW-ON LOUVRED | PANEL HINGED | PANEL HINGED LOUVRED |
|-----------|--------------------|-----|----------------|------------------------|--------------|----------------------|
| | H | W | | | | |
| VE-121-3 | 21" | 19" | EP-213 | EP-213V | HEP-213 | HEP-213V |
| VE-128-3 | 28" | 19" | EP-283 | EP-283V | HEP-283 | HEP-283V |
| VE-135-3 | 35" | 19" | EP-353 | EP-353V | HEP-353 | HEP-353V |
| VE-143-3 | 43 $\frac{3}{4}$ " | 19" | EP-433 | EP-433V | HEP-433 | HEP-433V |
| VE-152-3 | 52 $\frac{1}{2}$ " | 19" | EP-523 | EP-523V | HEP-523 | HEP-523V |
| VE-161-3 | 61 $\frac{1}{4}$ " | 19" | EP-613 | EP-613V | HEP-613 | HEP-613V |
| VE-170-3 | 70" | 19" | EP-703 | EP-703V | HEP-703 | HEP-703V |
| VE-178-3 | 78 $\frac{3}{4}$ " | 19" | EP-783 | EP-783V | HEP-783 | HEP-783V |
| VE-221-3 | 21" | 24" | EP-213 | EP-213V | HEP-213 | HEP-213V |
| VE-228-3 | 28" | 24" | EP-283 | EP-283V | HEP-283 | HEP-283V |
| VE-235-3 | 35" | 24" | EP-353 | EP-353V | HEP-353 | HEP-353V |
| VE-243-3 | 43 $\frac{3}{4}$ " | 24" | EP-433 | EP-433V | HEP-433 | HEP-433V |
| VE-252-3 | 52 $\frac{1}{2}$ " | 24" | EP-523 | EP-523V | HEP-523 | HEP-523V |
| VE-261-3 | 61 $\frac{1}{4}$ " | 24" | EP-613 | EP-613V | HEP-613 | HEP-613V |
| VE-270-3 | 70" | 24" | EP-703 | EP-703V | HEP-703 | HEP-703V |
| VE-278-3 | 78 $\frac{3}{4}$ " | 24" | EP-783 | EP-783V | HEP-783 | HEP-783V |
| VE-121-8 | 21" | 19" | EP-218 | EP-218V | HEP-218 | HEP-218V |
| VE-128-8 | 28" | 19" | EP-288 | EP-288V | HEP-288 | HEP-288V |
| VE-135-8 | 35" | 19" | EP-358 | EP-358V | HEP-358 | HEP-358V |
| VE-143-8 | 43 $\frac{3}{4}$ " | 19" | EP-438 | EP-438V | HEP-438 | HEP-438V |
| VE-152-8 | 52 $\frac{1}{2}$ " | 19" | EP-528 | EP-528V | HEP-523 | HEP-523V |
| VE-161-8 | 61 $\frac{1}{4}$ " | 19" | EP-618 | EP-618V | HEP-618 | HEP-618V |
| VE-170-8 | 70" | 19" | EP-708 | EP-708V | HEP-708 | HEP-708V |
| VE-178-8 | 78 $\frac{3}{4}$ " | 19" | EP-788 | EP-788V | HEP-788 | HEP-788V |
| VE-221-8 | 21" | 24" | EP-218 | EP-218V | HEP-218 | HEP-218V |
| VE-228-8 | 28" | 24" | EP-288 | EP-288V | HEP-288 | HEP-288V |
| VE-235-8 | 35" | 24" | EP-358 | EP-358V | HEP-358 | HEP-358V |
| VE-243-8 | 43 $\frac{3}{4}$ " | 24" | EP-438 | EP-438V | HEP-438 | HEP-438V |
| VE-252-8 | 52 $\frac{1}{2}$ " | 24" | EP-528 | EP-528V | HEP-523 | HEP-523V |
| VE-261-8 | 61 $\frac{1}{4}$ " | 24" | EP-618 | EP-618V | HEP-618 | HEP-618V |
| VE-270-8 | 70" | 24" | EP-708 | EP-708V | HEP-708 | HEP-708V |
| VE-278-8 | 78 $\frac{3}{4}$ " | 24" | EP-788 | EP-788V | HEP-788 | HEP-788V |

ORDERING GUIDE



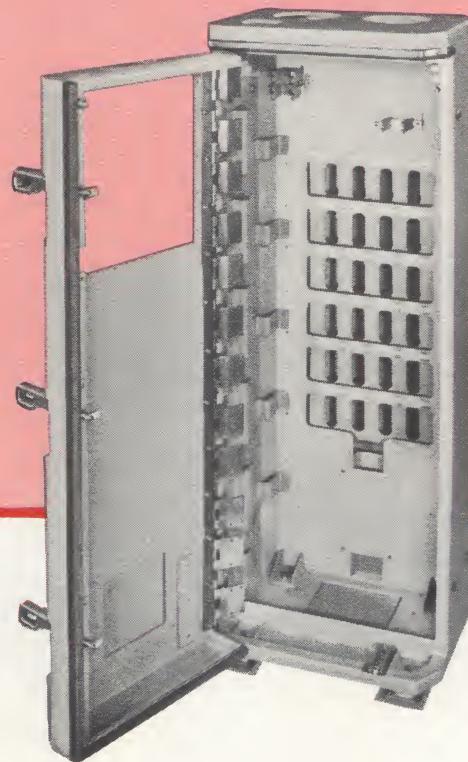
| FRAME NO. | DOOR BLANK | DOOR LOUVRED | PONTOON BASE | CASTER BASE 3" DIA. | WORK-TOP 18" DEEP | CHASSIS SUPPORT | SHELVES |
|-----------|------------|--------------|--------------|---------------------|-------------------|-----------------|---------|
| VE-121-3 | DF-121 | DF-121V | PB-33 | CB-233-3 | WT-183-S | SS-23 | SH-33 |
| VE-128-3 | DF-128 | DF-128V | PB-33 | CB-233-3 | WT-183-S | SS-23 | SH-33 |
| VE-135-3 | DF-135 | DF-135V | PB-33 | CB-233-3 | WT-182-S | SS-23 | SH-33 |
| VE-143-3 | DF-143 | DF-143V | PB-33 | CB-233-3 | WT-182-S | SS-23 | SH-33 |
| VE-152-3 | DF-152 | DF-152V | PB-33 | CB-233-3 | WT-182-S | SS-23 | SH-33 |
| VE-161-3 | DF-161 | DF-161V | PB-33 | CB-233-3 | WT-182-S | SS-23 | SH-33 |
| VE-170-3 | DF-170 | DF-170V | PB-33 | CB-233-3 | WT-182-S | SS-23 | SH-33 |
| VE-178-3 | DF-178 | DF-178V | PB-33 | CB-233-3 | WT-182-S | SS-23 | SH-33 |
| VE-221-3 | DF-221 | DF-221V | PB-83 | CB-283-3 | WT-283-S | SS-23 | SH-83 |
| VE-228-3 | DF-228 | DF-228V | PB-83 | CB-283-3 | WT-283-S | SS-23 | SH-83 |
| VE-235-3 | DF-235 | DF-235V | PB-83 | CB-283-3 | WT-282-S | SS-23 | SH-83 |
| VE-243-3 | DF-243 | DF-243V | PB-83 | CB-283-3 | WT-282-S | SS-23 | SH-83 |
| VE-252-3 | DF-252 | DF-252V | PB-83 | CB-283-3 | WT-282-S | SS-23 | SH-83 |
| VE-261-3 | DF-261 | DF-261V | PB-83 | CB-283-3 | WT-282-S | SS-23 | SH-83 |
| VE-270-3 | DF-270 | DF-270V | PB-83 | CB-283-3 | WT-282-S | SS-23 | SH-83 |
| VE-278-3 | DF-278 | DF-278V | PB-83 | CB-283-3 | WT-282-S | SS-23 | SH-83 |
| VE-121-8 | DF-121 | DF-121V | PB-38 | CB-238-3 | WT-183-S | SS-28 | SH-38 |
| VE-128-8 | DF-128 | DF-128V | PB-38 | CB-238-3 | WT-183-S | SS-28 | SH-38 |
| VE-135-8 | DF-135 | DF-135V | PB-38 | CB-238-3 | WT-182-S | SS-28 | SH-38 |
| VE-143-8 | DF-143 | DF-143V | PB-38 | CB-238-3 | WT-182-S | SS-28 | SH-38 |
| VE-152-8 | DF-152 | DF-152V | PB-38 | CB-238-3 | WT-182-S | SS-28 | SH-38 |
| VE-161-8 | DF-161 | DF-161V | PB-38 | CB-238-3 | WT-182-S | SS-28 | SH-38 |
| VE-170-8 | DF-170 | DF-170V | PB-38 | CB-238-3 | WT-182-S | SS-28 | SH-38 |
| VE-178-8 | DF-178 | DF-178V | PB-38 | CB-238-3 | WT-182-S | SS-28 | SH-38 |
| VE-221-8 | DF-221 | DF-221V | PB-88 | CB-288-3 | WT-283-S | SS-28 | SH-88 |
| VE-228-8 | DF-228 | DF-228V | PB-88 | CB-288-3 | WT-283-S | SS-28 | SH-88 |
| VE-235-8 | DF-235 | DF-235V | PB-88 | CB-288-3 | WT-282-S | SS-28 | SH-88 |
| VE-243-8 | DF-243 | DF-243V | PB-88 | CB-288-3 | WT-282-S | SS-28 | SH-88 |
| VE-252-8 | DF-252 | DF-252V | PB-88 | CB-288-3 | WT-282-S | SS-28 | SH-88 |
| VE-261-8 | DF-261 | DF-261V | PB-88 | CB-288-3 | WT-282-S | SS-28 | SH-88 |
| VE-270-8 | DF-270 | DF-270V | PB-88 | CB-288-3 | WT-282-S | SS-28 | SH-88 |
| VE-278-8 | DF-278 | DF-278V | PB-88 | CB-288-3 | WT-282-S | SS-28 | SH-88 |

CUSTOM FABRICATION

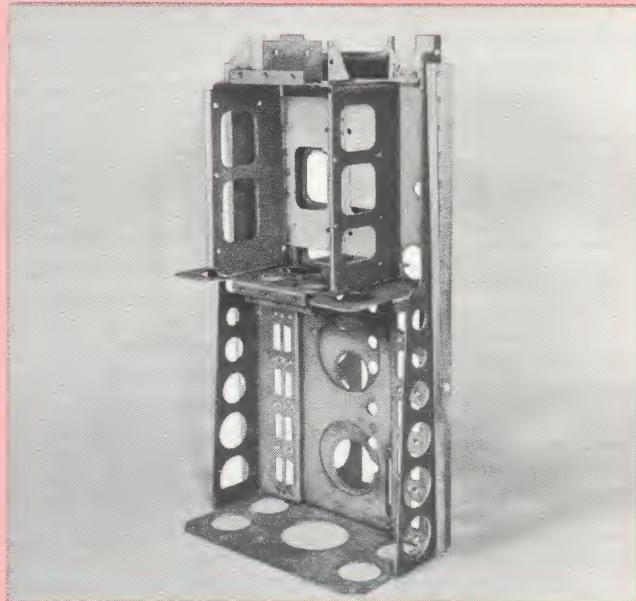
Knowledgeable manpower, trained to the high quality standards of CMP fabrication practice, provides CMP customers with prototypes and products of the highest order. CMP engineers are thoroughly experienced in the techniques of value analysis and engineering and are pleased to advise their customers on methods for reducing costs and improving product reliability.

Illustrated in this section are samples of custom produced components made by CMP and utilizing the most advanced fabrication and inspection equipment. These are notable for the many precise, close-tolerance operations required to produce them. Quality control, experience and ingenuity, supported by the finest equipment available, accounts for CMP's ability to produce such exacting parts in both production and small quantities at reasonable cost.

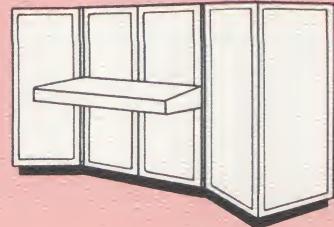
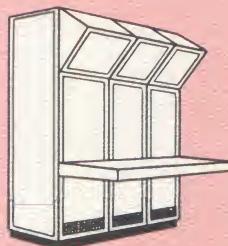
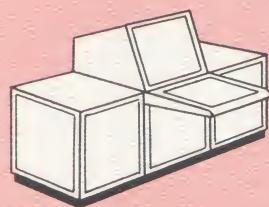
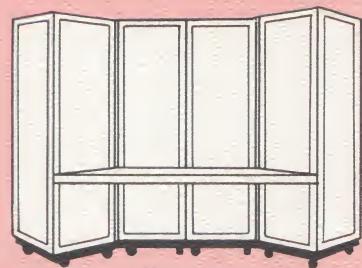
This cabinet assembly is composed of more than 100 integrated parts which were fabricated and assembled at CMP.



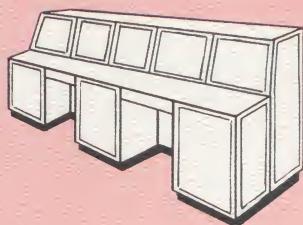
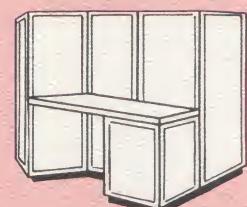
This intricate, stainless steel assembly with a tolerance of 0.010 inches across its entire width, was made from detail drawings with tolerances reduced 65% to achieve optimum results.



An assortment of parts which reflect CMP's capability for producing small as well as large components.



THE CMP MODULAR SYSTEM
OFFERS INFINITE VARIATIONS OF
STANDARD ENCLOSURES
UTILIZING BASIC FRAMES
AND COMPONENTS



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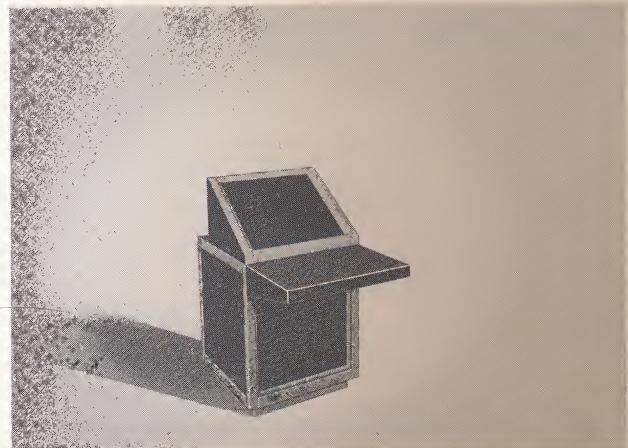
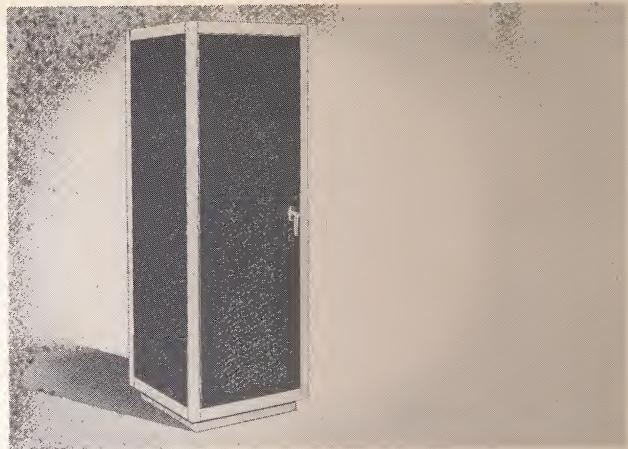
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